

Pantheon Report

Generated at 2018-12-20 10:08:00 (UTC).
Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).
Repeated the test of 19 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

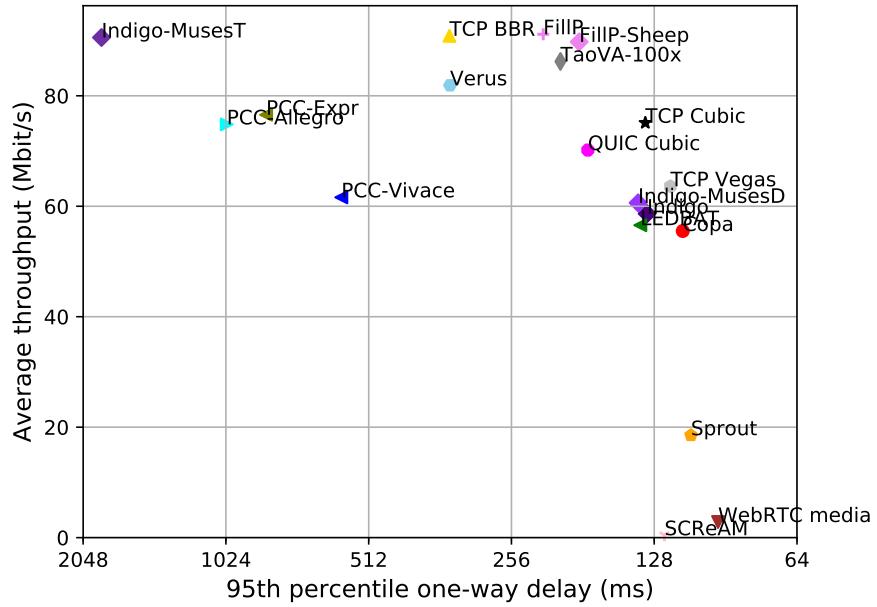
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

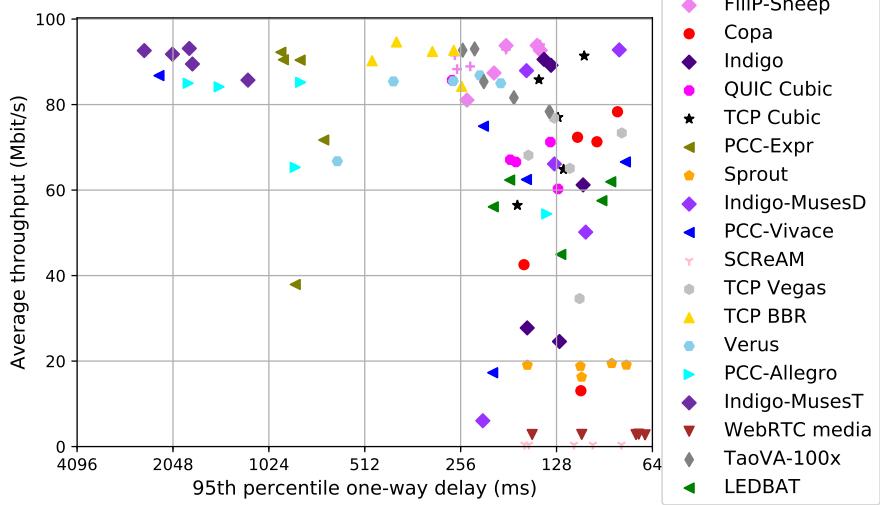
```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbfed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from India to AWS India 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from India to AWS India 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



↳

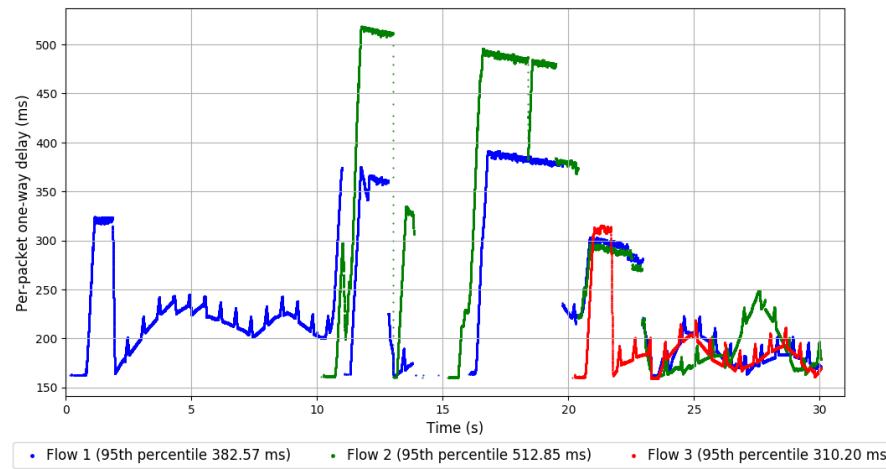
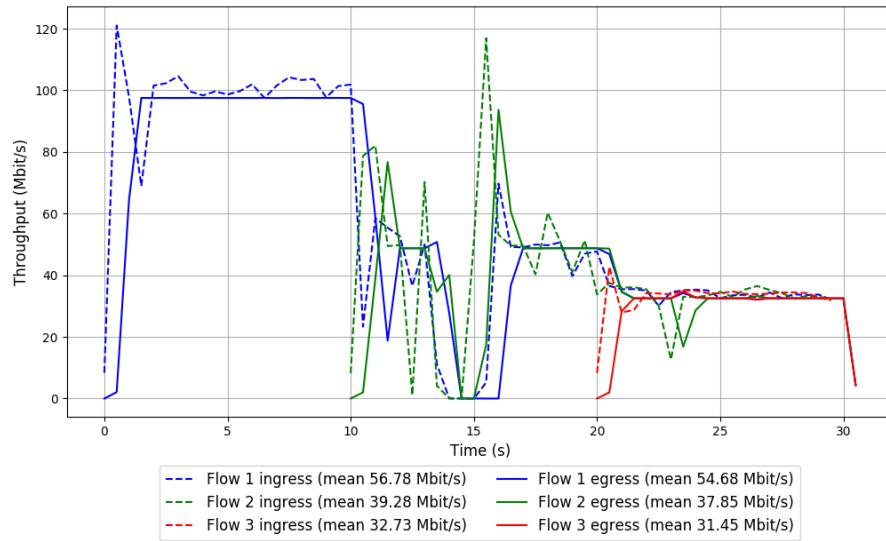
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	56.74	37.03	28.85	299.52	316.07	538.36	2.93	3.52	5.05
Copa	5	32.91	24.29	19.52	111.02	112.59	110.30	0.18	0.30	0.72
TCP Cubic	5	45.37	30.55	28.52	140.62	127.09	169.50	0.25	0.47	1.35
FillP	5	54.90	38.65	31.89	211.03	222.98	217.39	0.65	2.66	3.46
FillP-Sheep	5	57.19	35.67	26.71	172.18	194.05	202.41	0.44	0.73	1.62
Indigo	5	34.30	23.97	25.94	131.52	131.51	138.24	0.30	0.29	0.65
Indigo-MusesD	5	35.09	26.62	23.78	137.74	141.37	136.28	0.12	0.28	0.96
Indigo-MusesT	5	53.08	39.99	36.53	1790.84	1789.46	1601.70	18.07	29.12	25.22
LEDBAT	5	32.35	27.58	17.78	137.16	137.83	135.78	0.28	0.42	1.37
PCC-Allegro	5	40.05	43.90	17.02	899.87	315.56	159.16	4.57	0.80	1.28
PCC-Expr	5	49.66	28.70	23.90	825.62	500.16	204.22	26.77	7.26	1.24
QUIC Cubic	5	39.83	32.61	26.34	164.12	188.82	183.37	0.23	0.45	1.18
SCReAM	5	0.22	0.22	0.22	121.39	119.04	119.42	0.26	0.36	0.65
Sprout	5	9.41	9.29	9.02	106.13	107.65	108.97	0.27	0.45	0.89
TaoVA-100x	5	49.80	40.27	29.05	197.04	204.41	216.21	0.50	0.73	2.02
TCP Vegas	5	35.60	26.49	31.50	119.37	117.87	121.18	0.21	0.40	0.88
Verus	5	49.74	32.74	31.73	267.97	421.27	564.26	0.53	0.85	1.96
PCC-Vivace	5	43.77	21.81	10.24	603.95	143.85	138.92	2.42	0.60	1.34
WebRTC media	5	1.60	0.91	0.32	91.85	93.25	94.01	0.12	0.16	0.92

Run 1: Statistics of TCP BBR

```
Start at: 2018-12-20 08:12:23
End at: 2018-12-20 08:12:53
Local clock offset: -1.536 ms
Remote clock offset: -93.787 ms

# Below is generated by plot.py at 2018-12-20 09:58:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 485.527 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 382.575 ms
Loss rate: 3.96%
-- Flow 2:
Average throughput: 37.85 Mbit/s
95th percentile per-packet one-way delay: 512.845 ms
Loss rate: 4.01%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 310.201 ms
Loss rate: 4.62%
```

Run 1: Report of TCP BBR — Data Link

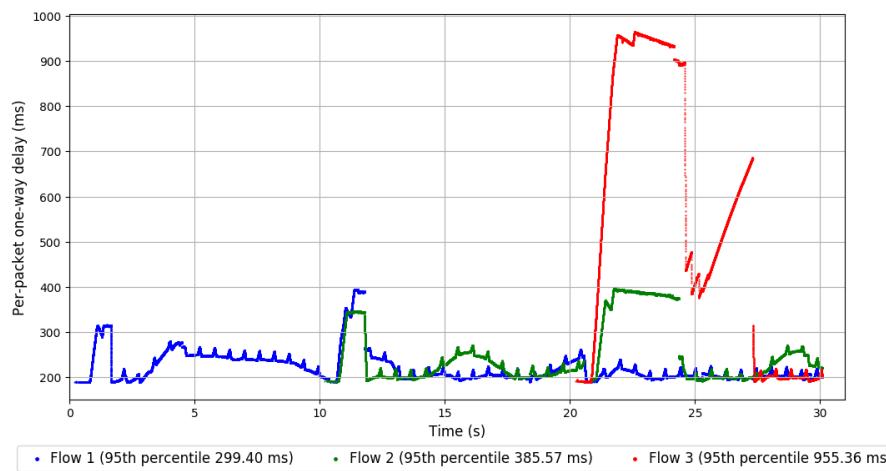
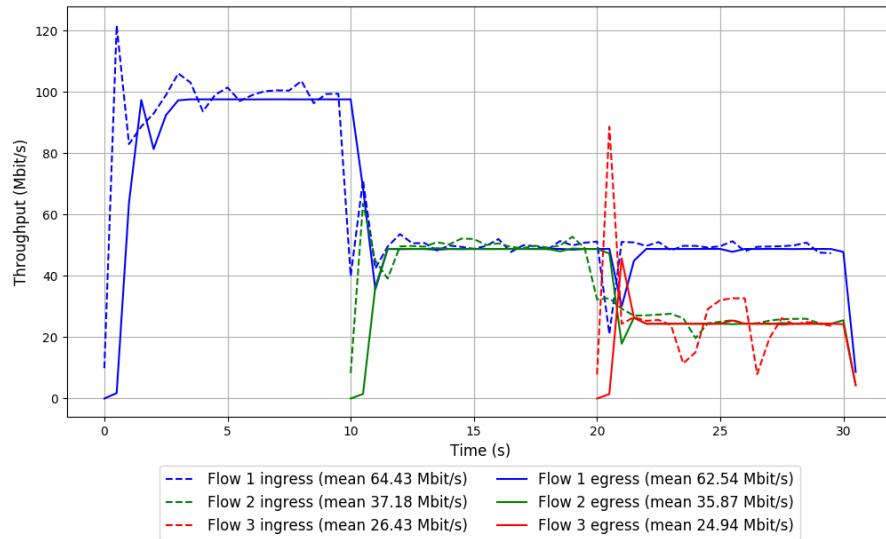


Run 2: Statistics of TCP BBR

```
Start at: 2018-12-20 08:36:44
End at: 2018-12-20 08:37:14
Local clock offset: 0.85 ms
Remote clock offset: -120.135 ms

# Below is generated by plot.py at 2018-12-20 09:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 407.089 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 299.400 ms
Loss rate: 3.18%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 385.567 ms
Loss rate: 3.93%
-- Flow 3:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 955.364 ms
Loss rate: 6.35%
```

Run 2: Report of TCP BBR — Data Link

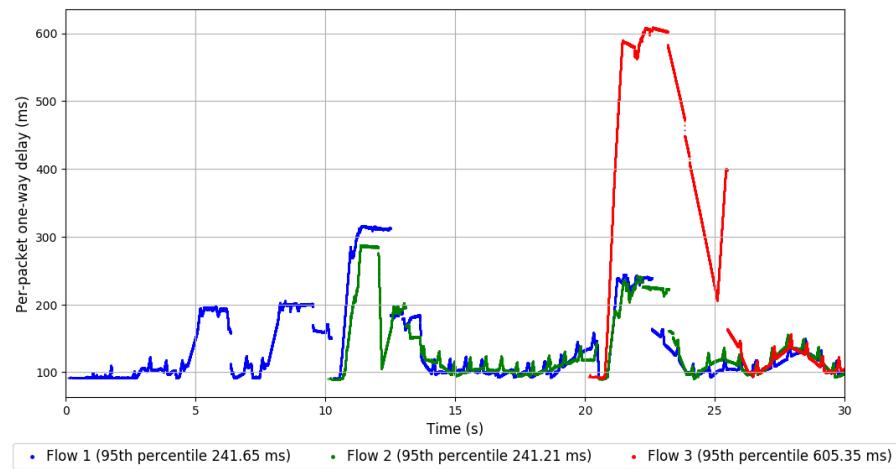
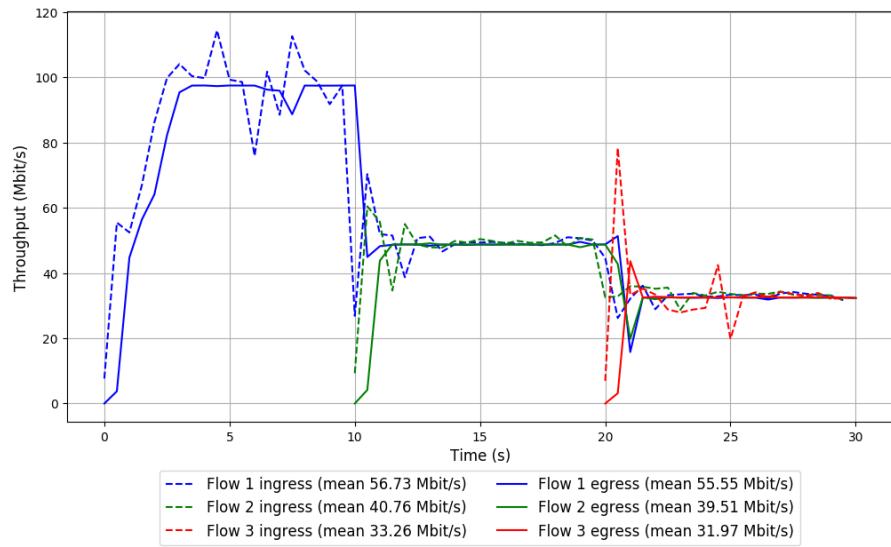


Run 3: Statistics of TCP BBR

```
Start at: 2018-12-20 09:01:30
End at: 2018-12-20 09:02:00
Local clock offset: -1.528 ms
Remote clock offset: -23.208 ms

# Below is generated by plot.py at 2018-12-20 09:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 313.940 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 55.55 Mbit/s
95th percentile per-packet one-way delay: 241.646 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 241.206 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 605.346 ms
Loss rate: 4.63%
```

Run 3: Report of TCP BBR — Data Link

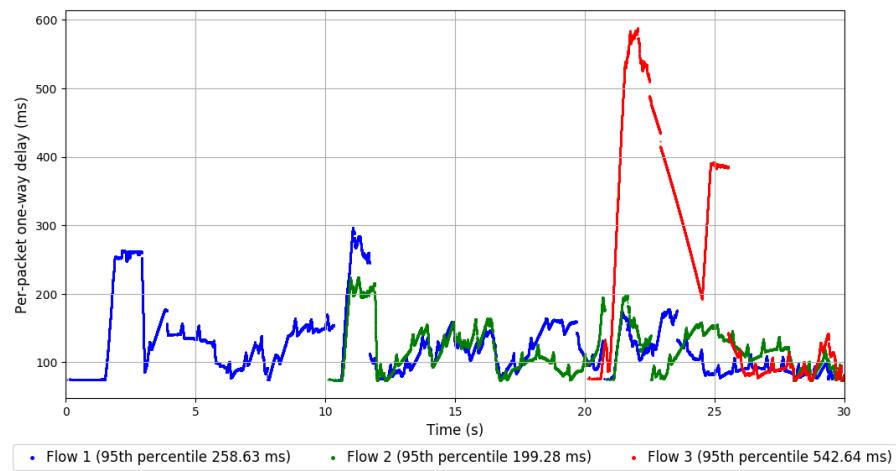
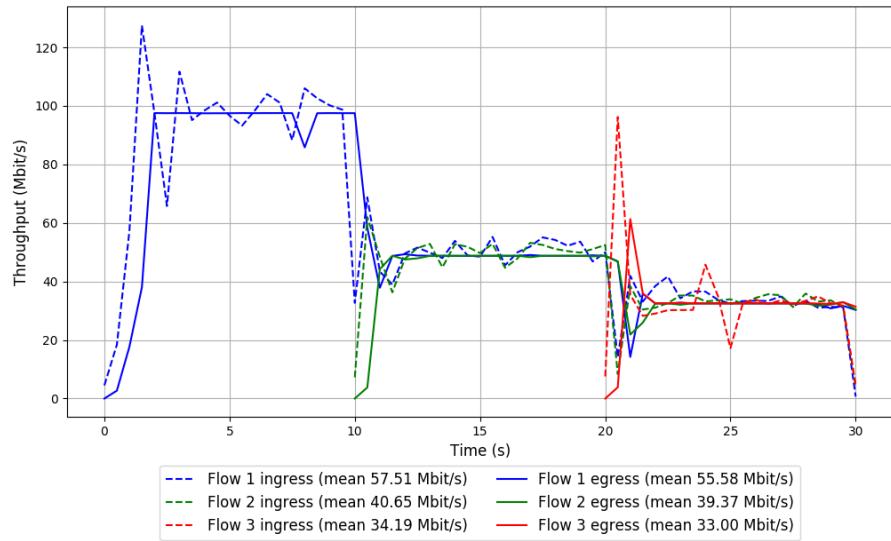


Run 4: Statistics of TCP BBR

```
Start at: 2018-12-20 09:26:21
End at: 2018-12-20 09:26:51
Local clock offset: -0.214 ms
Remote clock offset: -5.608 ms

# Below is generated by plot.py at 2018-12-20 09:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 269.082 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 55.58 Mbit/s
95th percentile per-packet one-way delay: 258.634 ms
Loss rate: 3.70%
-- Flow 2:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 199.279 ms
Loss rate: 3.86%
-- Flow 3:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 542.640 ms
Loss rate: 4.93%
```

Run 4: Report of TCP BBR — Data Link

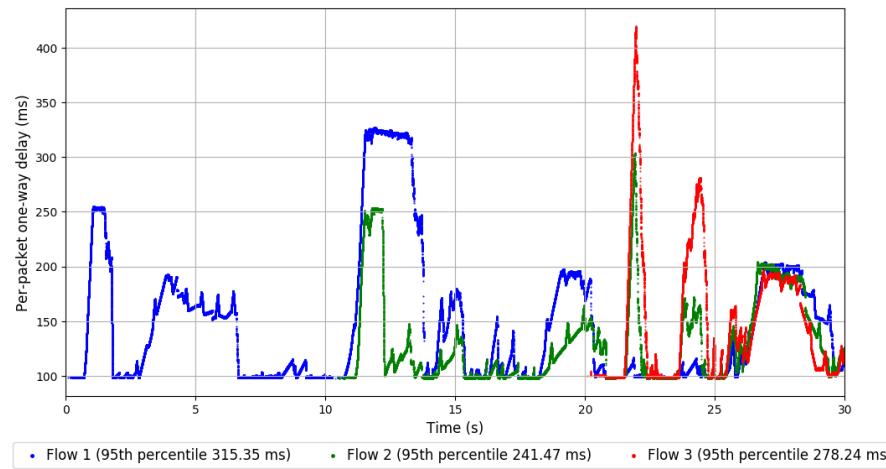
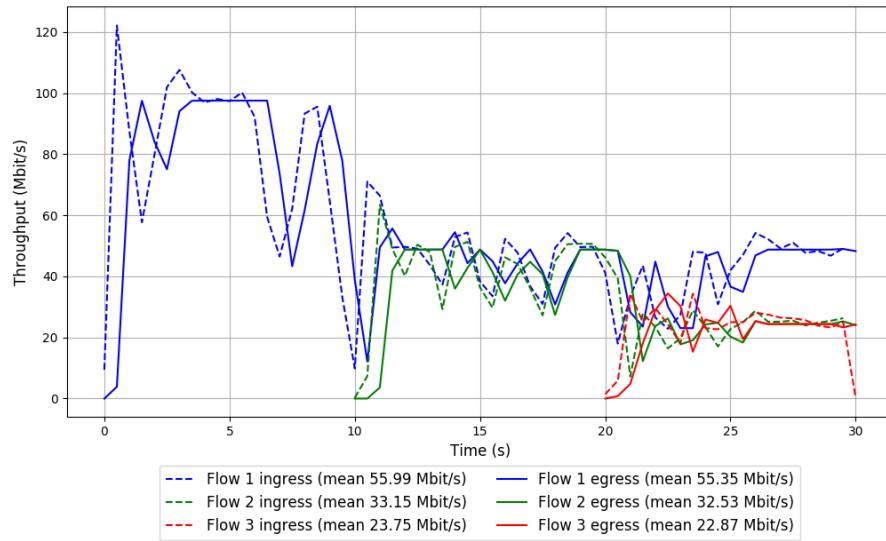


Run 5: Statistics of TCP BBR

```
Start at: 2018-12-20 09:52:14
End at: 2018-12-20 09:52:44
Local clock offset: -0.793 ms
Remote clock offset: -25.402 ms

# Below is generated by plot.py at 2018-12-20 09:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 254.158 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 315.348 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 241.474 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 278.235 ms
Loss rate: 4.73%
```

Run 5: Report of TCP BBR — Data Link

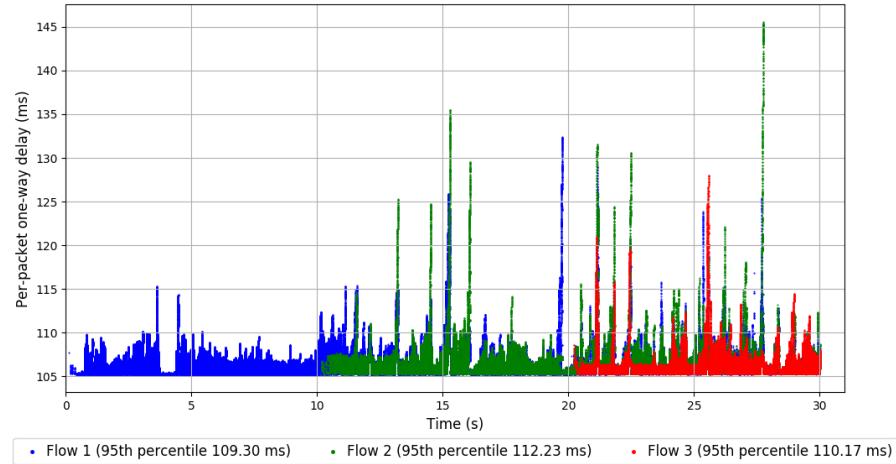
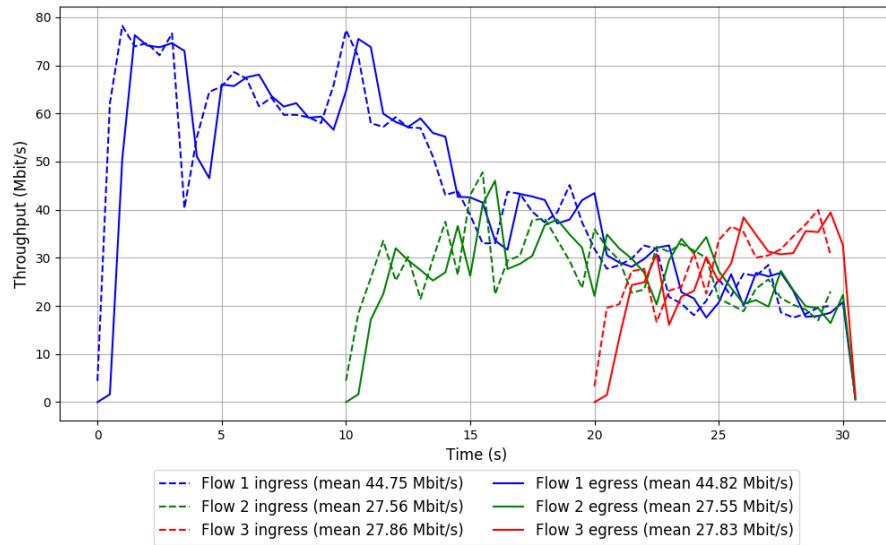


Run 1: Statistics of Copa

```
Start at: 2018-12-20 08:08:32
End at: 2018-12-20 08:09:02
Local clock offset: -2.518 ms
Remote clock offset: -41.413 ms

# Below is generated by plot.py at 2018-12-20 09:58:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 109.964 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 109.300 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 112.226 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 110.169 ms
Loss rate: 0.88%
```

Run 1: Report of Copa — Data Link

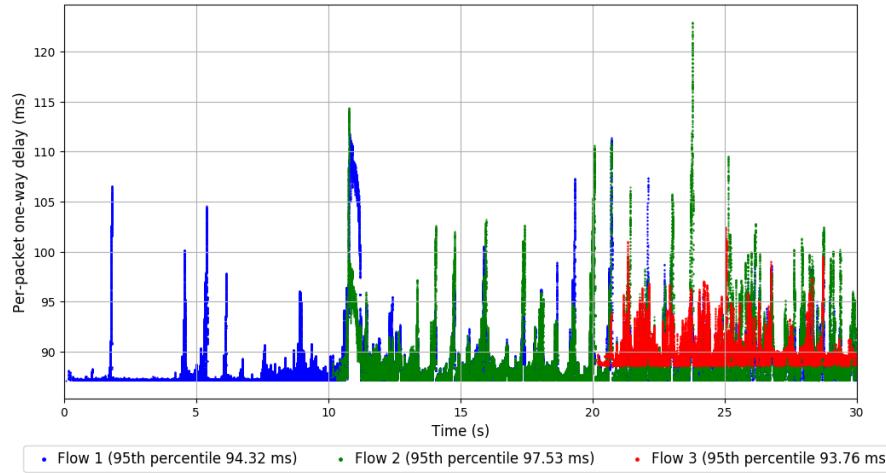
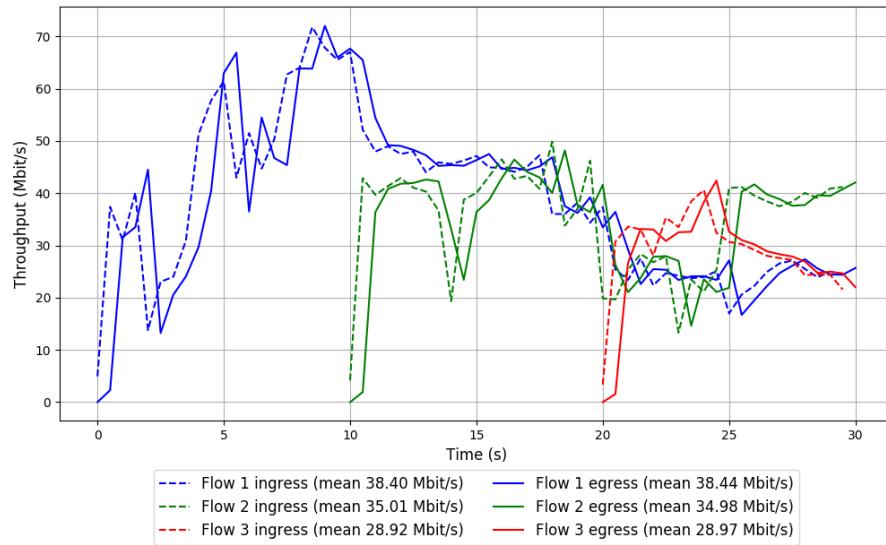


Run 2: Statistics of Copa

```
Start at: 2018-12-20 08:32:52
End at: 2018-12-20 08:33:22
Local clock offset: -0.695 ms
Remote clock offset: -19.594 ms

# Below is generated by plot.py at 2018-12-20 09:58:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 95.590 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 94.317 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 97.525 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 93.763 ms
Loss rate: 0.59%
```

Run 2: Report of Copa — Data Link

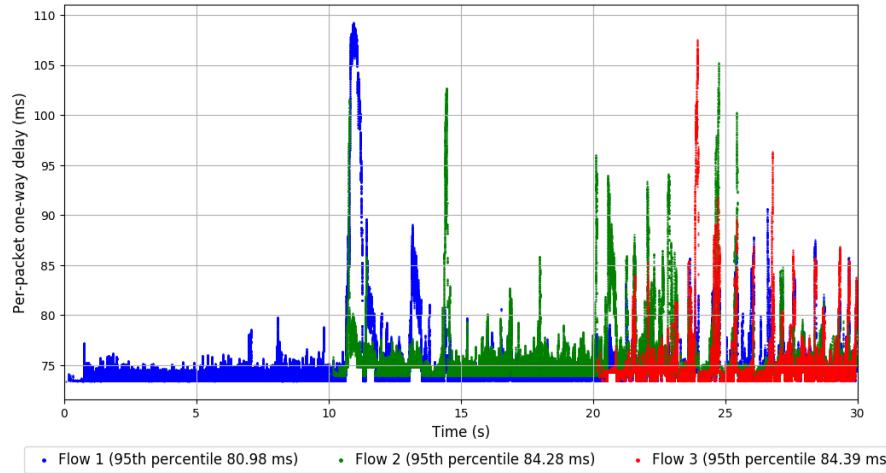
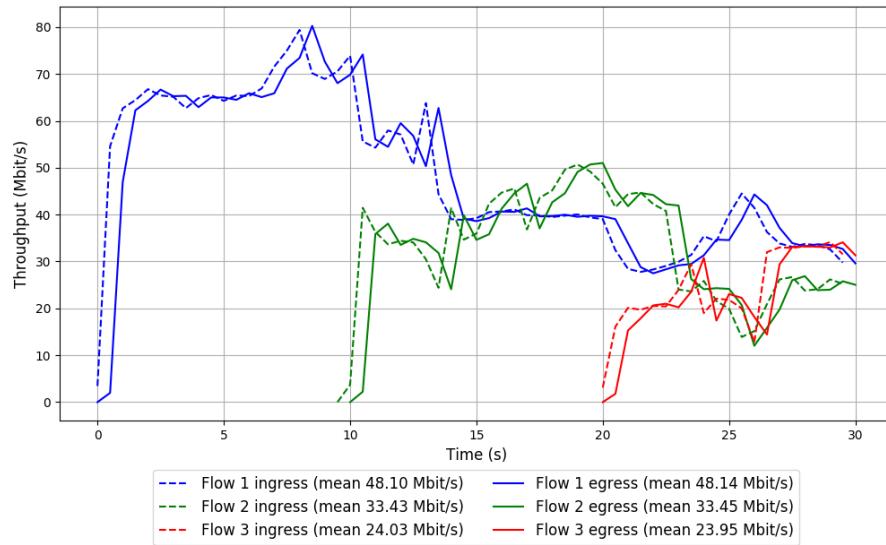


Run 3: Statistics of Copa

```
Start at: 2018-12-20 08:57:10
End at: 2018-12-20 08:57:40
Local clock offset: 0.751 ms
Remote clock offset: -2.697 ms

# Below is generated by plot.py at 2018-12-20 09:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.32 Mbit/s
95th percentile per-packet one-way delay: 82.379 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 80.978 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 33.45 Mbit/s
95th percentile per-packet one-way delay: 84.276 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 84.385 ms
Loss rate: 1.12%
```

Run 3: Report of Copa — Data Link

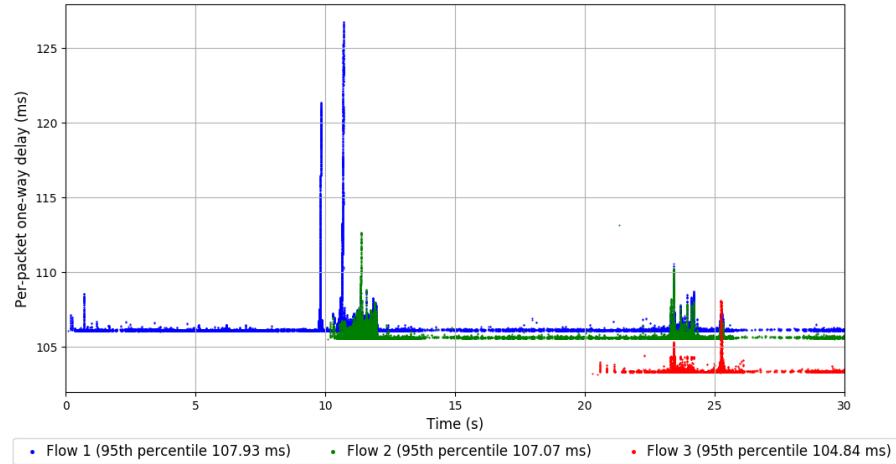
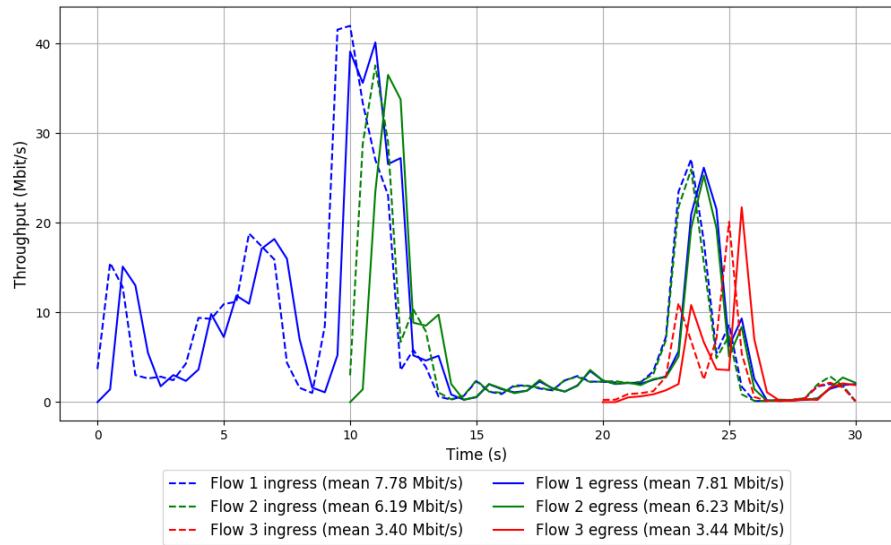


Run 4: Statistics of Copa

```
Start at: 2018-12-20 09:22:36
End at: 2018-12-20 09:23:06
Local clock offset: -2.353 ms
Remote clock offset: -37.356 ms

# Below is generated by plot.py at 2018-12-20 09:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 107.352 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 107.927 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 107.072 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 104.840 ms
Loss rate: 0.45%
```

Run 4: Report of Copa — Data Link

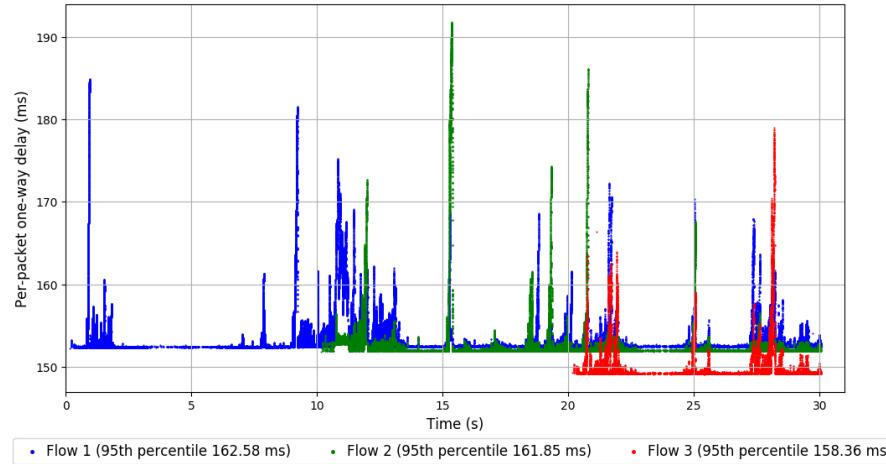
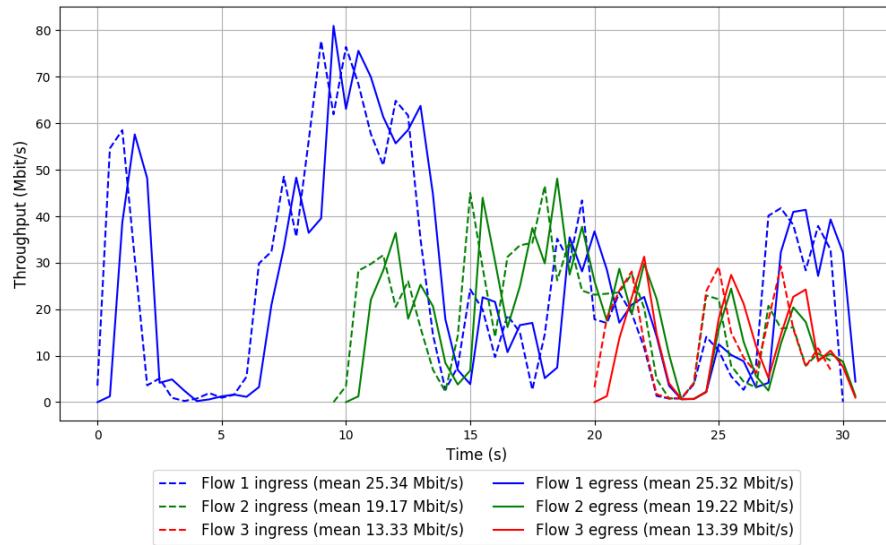


Run 5: Statistics of Copa

```
Start at: 2018-12-20 09:47:52
End at: 2018-12-20 09:48:22
Local clock offset: 1.959 ms
Remote clock offset: -74.891 ms

# Below is generated by plot.py at 2018-12-20 09:59:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 161.947 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 25.32 Mbit/s
95th percentile per-packet one-way delay: 162.582 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 19.22 Mbit/s
95th percentile per-packet one-way delay: 161.850 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 158.356 ms
Loss rate: 0.54%
```

Run 5: Report of Copa — Data Link

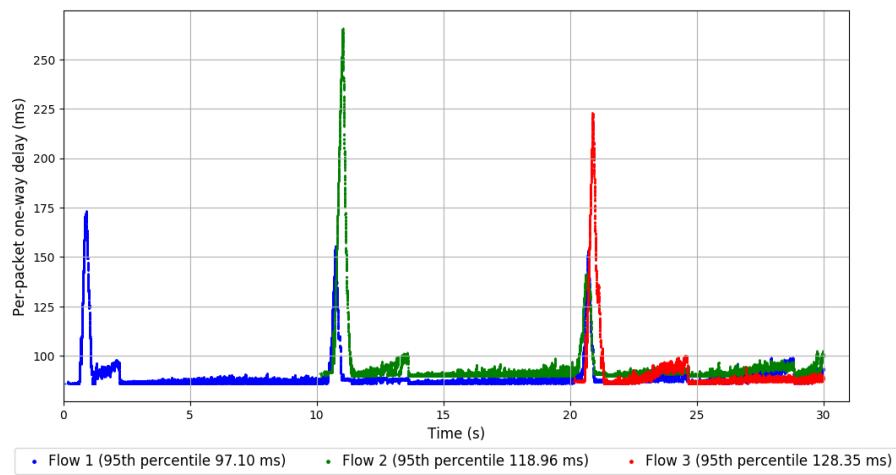
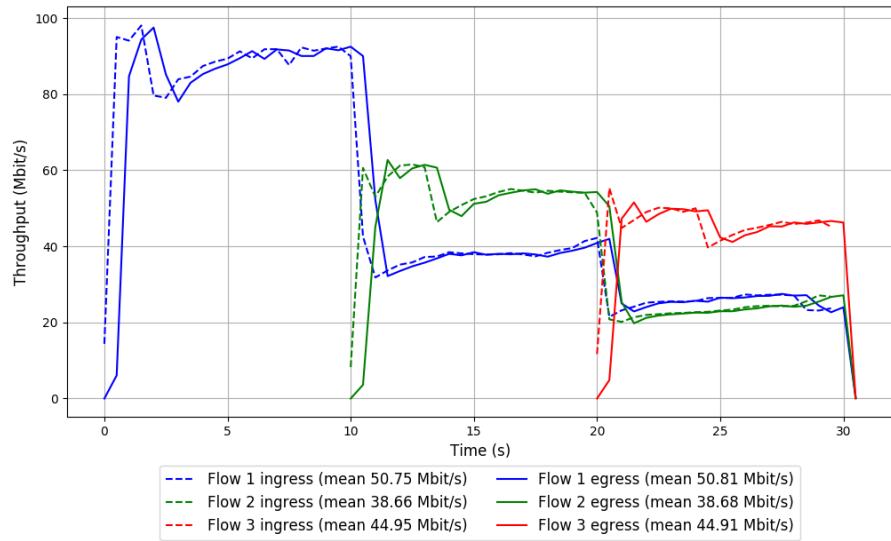


```
Run 1: Statistics of TCP Cubic

Start at: 2018-12-20 08:03:23
End at: 2018-12-20 08:03:53
Local clock offset: -0.584 ms
Remote clock offset: -20.396 ms

# Below is generated by plot.py at 2018-12-20 09:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 104.775 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 50.81 Mbit/s
95th percentile per-packet one-way delay: 97.099 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 118.956 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 44.91 Mbit/s
95th percentile per-packet one-way delay: 128.351 ms
Loss rate: 0.83%
```

Run 1: Report of TCP Cubic — Data Link

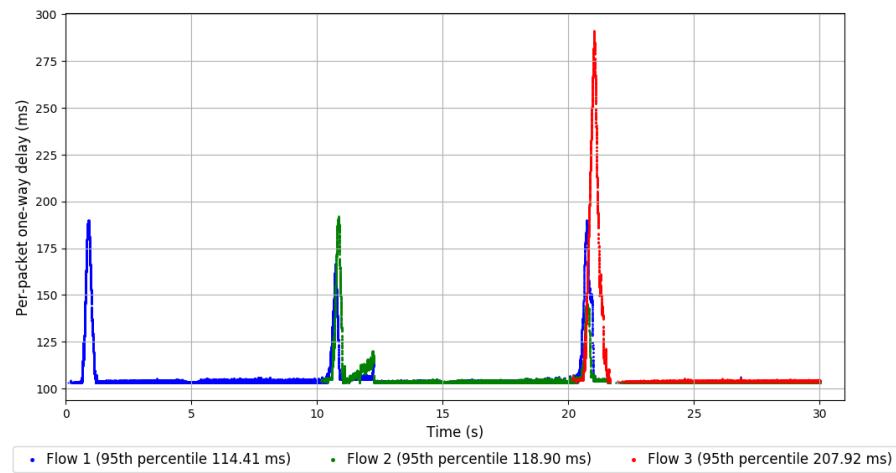
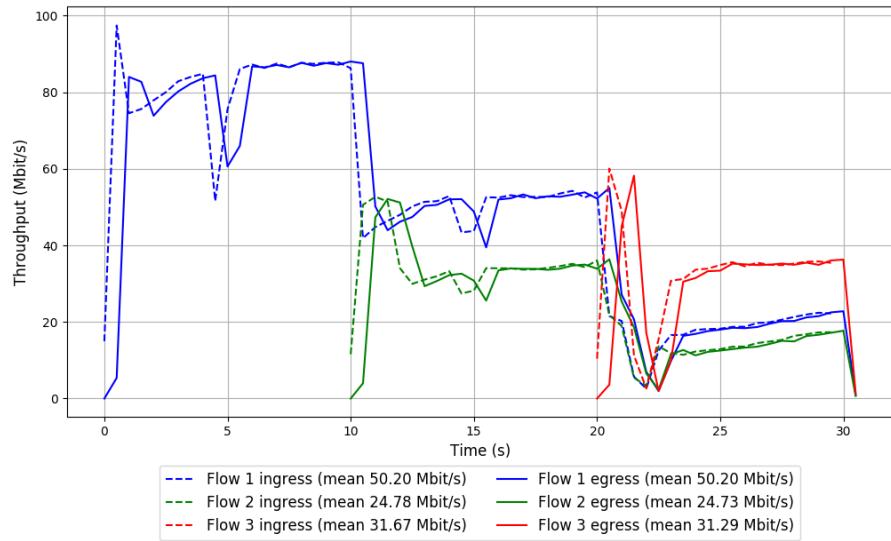


Run 2: Statistics of TCP Cubic

```
Start at: 2018-12-20 08:27:45
End at: 2018-12-20 08:28:15
Local clock offset: -0.971 ms
Remote clock offset: -37.637 ms

# Below is generated by plot.py at 2018-12-20 09:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 126.595 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 114.412 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 118.899 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 207.921 ms
Loss rate: 1.92%
```

Run 2: Report of TCP Cubic — Data Link

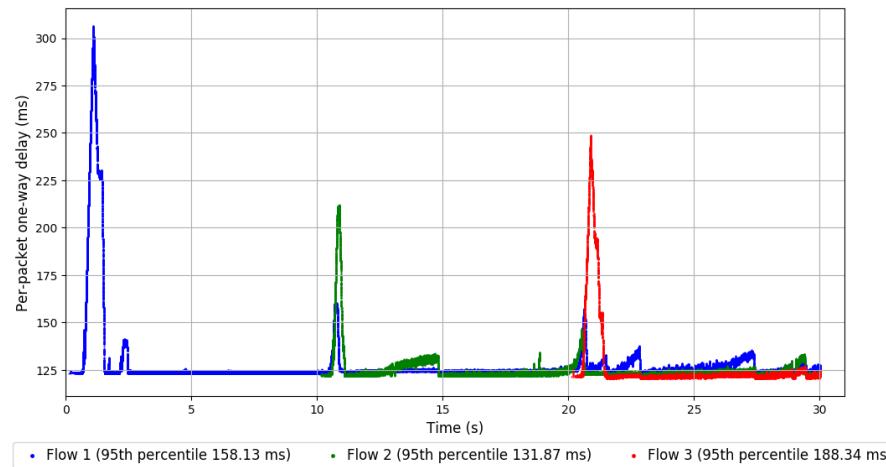
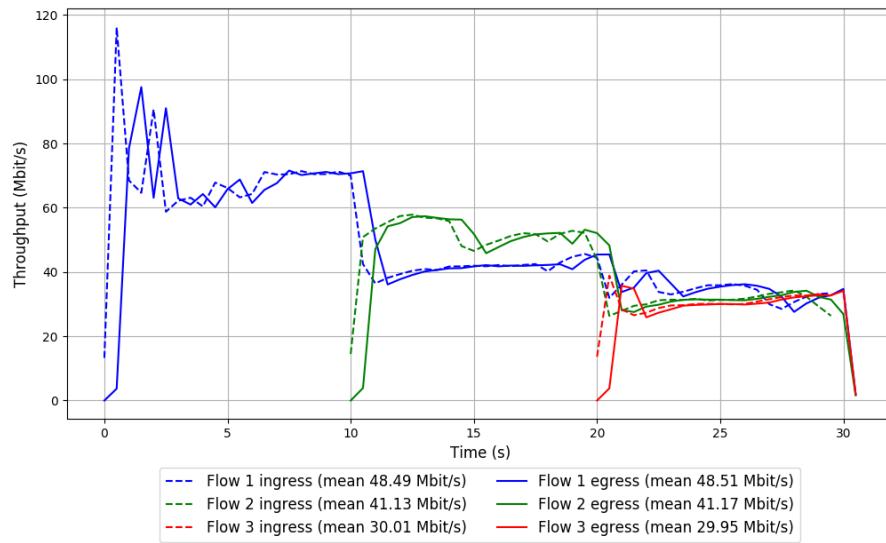


Run 3: Statistics of TCP Cubic

```
Start at: 2018-12-20 08:52:00
End at: 2018-12-20 08:52:30
Local clock offset: -0.468 ms
Remote clock offset: -56.262 ms

# Below is generated by plot.py at 2018-12-20 09:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.83 Mbit/s
95th percentile per-packet one-way delay: 145.402 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 158.127 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 41.17 Mbit/s
95th percentile per-packet one-way delay: 131.869 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 188.336 ms
Loss rate: 0.90%
```

Run 3: Report of TCP Cubic — Data Link

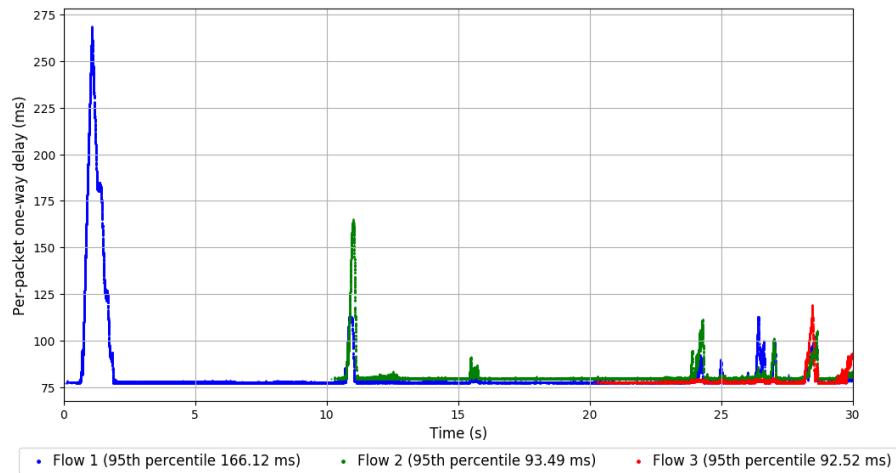
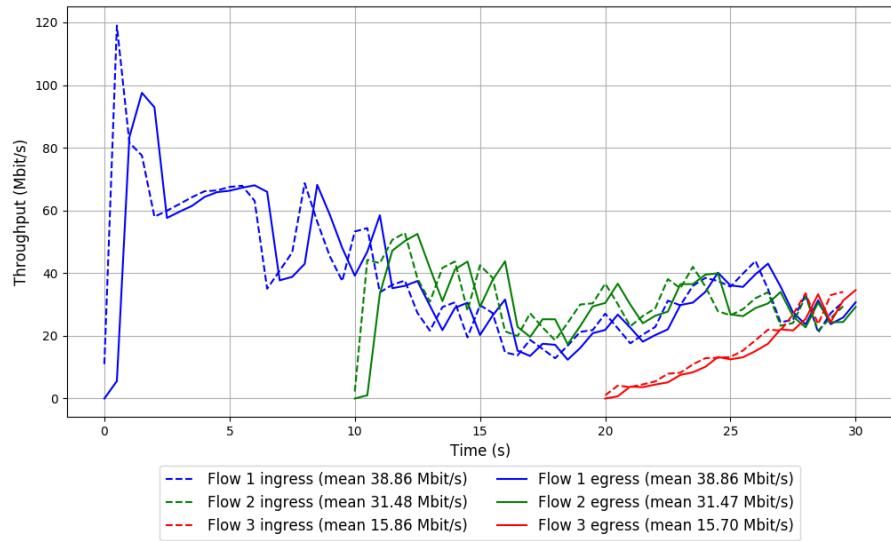


Run 4: Statistics of TCP Cubic

```
Start at: 2018-12-20 09:17:39
End at: 2018-12-20 09:18:09
Local clock offset: 0.956 ms
Remote clock offset: -7.47 ms

# Below is generated by plot.py at 2018-12-20 09:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.85 Mbit/s
95th percentile per-packet one-way delay: 121.684 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 166.120 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 93.494 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 92.517 ms
Loss rate: 1.81%
```

Run 4: Report of TCP Cubic — Data Link

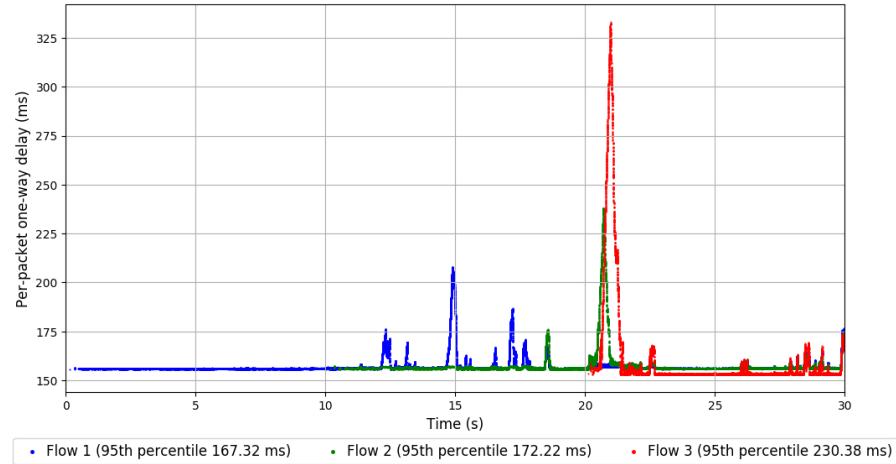
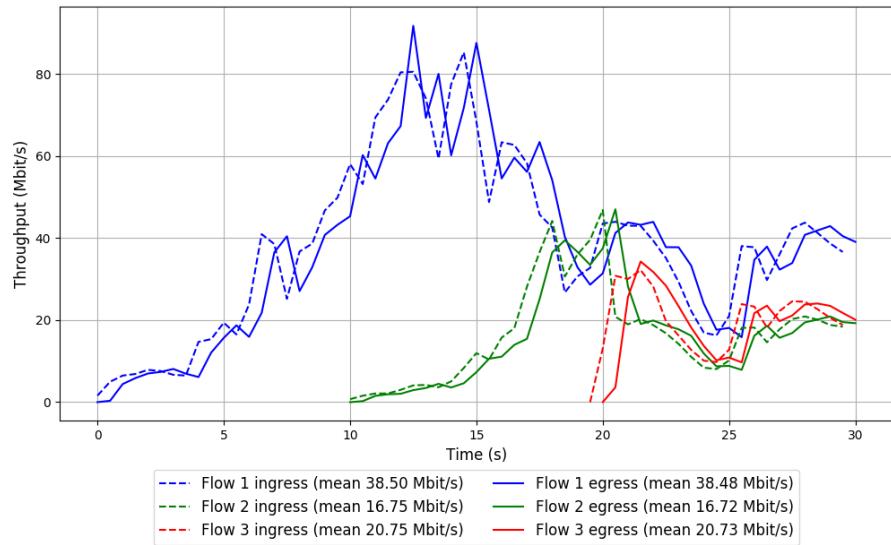


Run 5: Statistics of TCP Cubic

```
Start at: 2018-12-20 09:42:37
End at: 2018-12-20 09:43:07
Local clock offset: 1.109 ms
Remote clock offset: -80.493 ms

# Below is generated by plot.py at 2018-12-20 09:59:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.45 Mbit/s
95th percentile per-packet one-way delay: 169.834 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 167.318 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 172.225 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 230.383 ms
Loss rate: 1.28%
```

Run 5: Report of TCP Cubic — Data Link

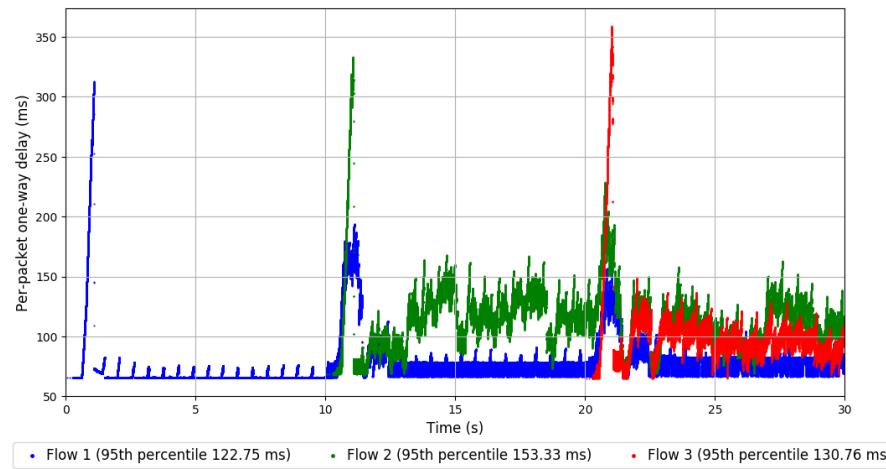
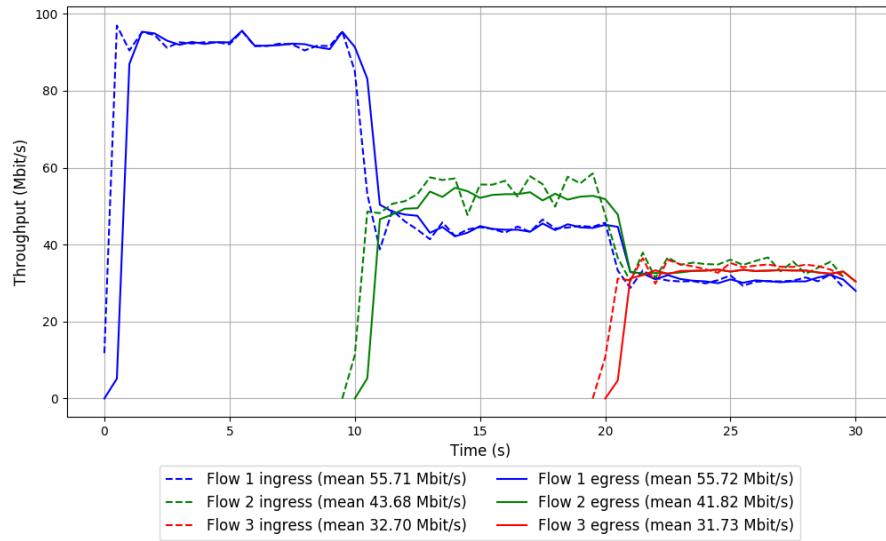


```
Run 1: Statistics of FillP
```

```
Start at: 2018-12-20 07:57:53
End at: 2018-12-20 07:58:23
Local clock offset: -2.392 ms
Remote clock offset: -0.855 ms

# Below is generated by plot.py at 2018-12-20 10:00:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 144.171 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 55.72 Mbit/s
95th percentile per-packet one-way delay: 122.754 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 41.82 Mbit/s
95th percentile per-packet one-way delay: 153.328 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 130.760 ms
Loss rate: 3.69%
```

Run 1: Report of FillP — Data Link

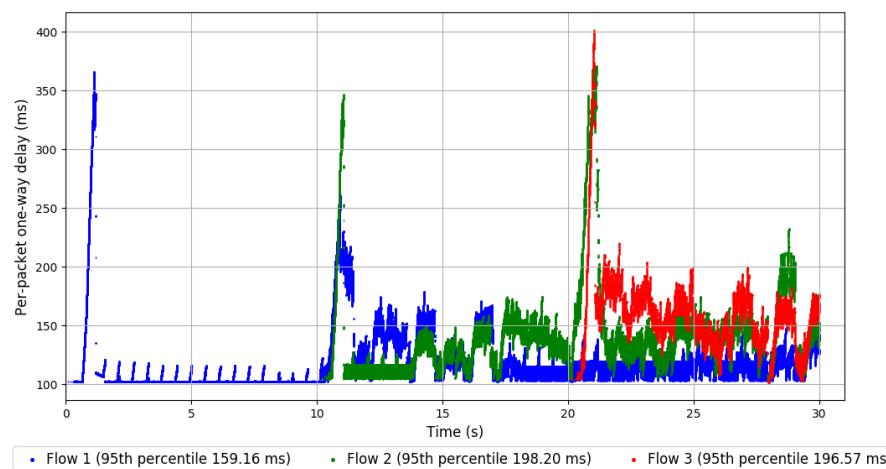
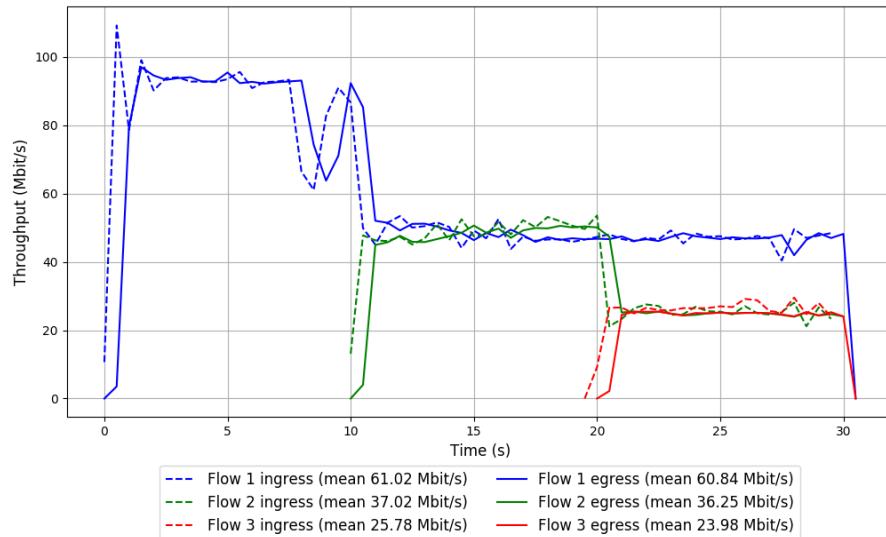


Run 2: Statistics of FillP

```
Start at: 2018-12-20 08:22:14
End at: 2018-12-20 08:22:44
Local clock offset: 0.378 ms
Remote clock offset: -33.072 ms

# Below is generated by plot.py at 2018-12-20 10:00:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 184.392 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 159.163 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 198.201 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 196.566 ms
Loss rate: 7.52%
```

Run 2: Report of FillP — Data Link

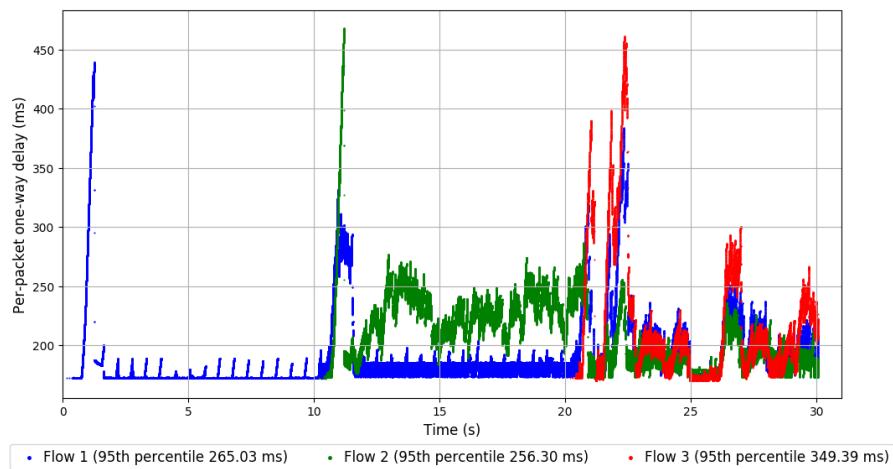
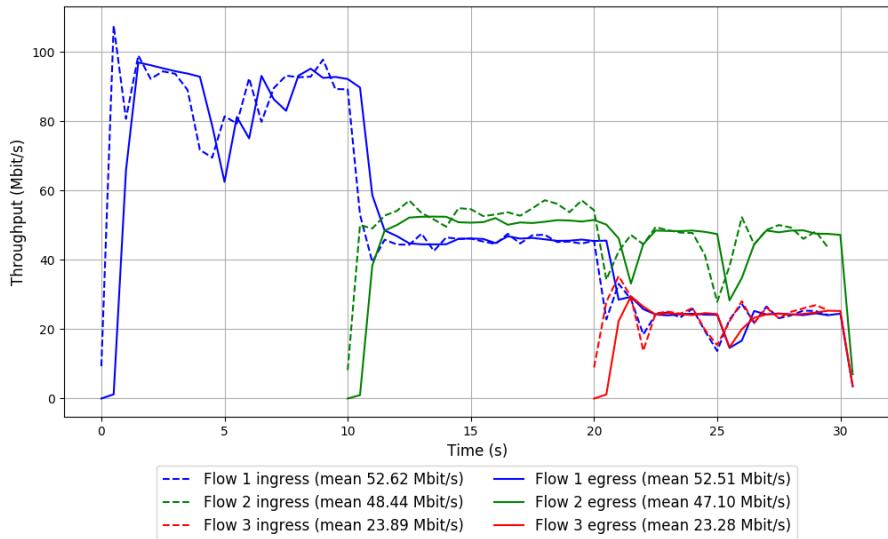


Run 3: Statistics of FillP

```
Start at: 2018-12-20 08:46:32
End at: 2018-12-20 08:47:02
Local clock offset: 1.612 ms
Remote clock offset: -101.839 ms

# Below is generated by plot.py at 2018-12-20 10:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.54 Mbit/s
95th percentile per-packet one-way delay: 266.913 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 52.51 Mbit/s
95th percentile per-packet one-way delay: 265.029 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 256.299 ms
Loss rate: 3.10%
-- Flow 3:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 349.393 ms
Loss rate: 3.27%
```

Run 3: Report of FillP — Data Link

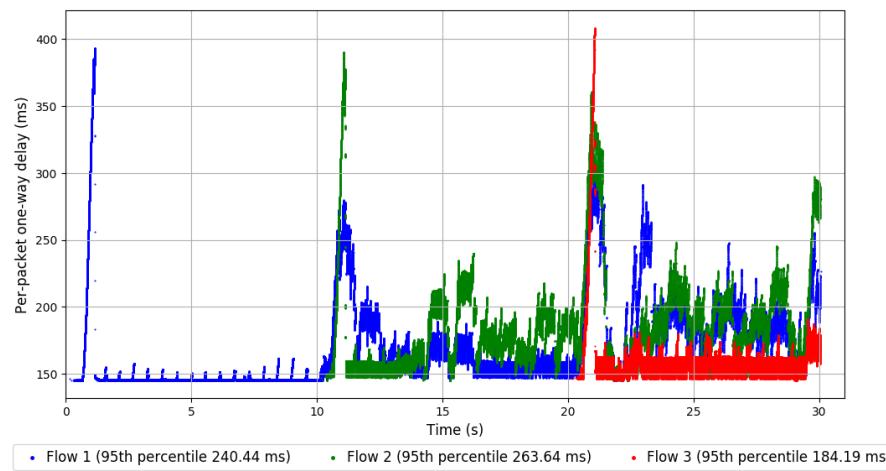
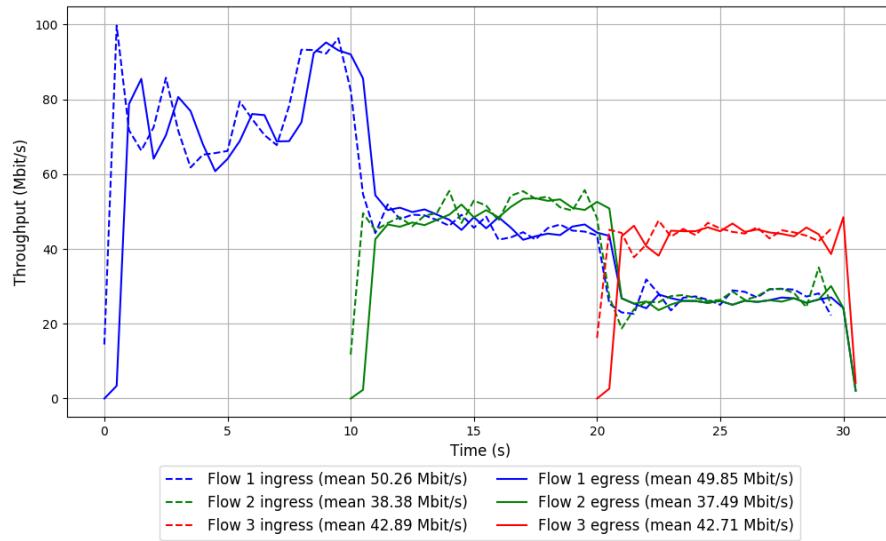


Run 4: Statistics of FillP

```
Start at: 2018-12-20 09:12:10
End at: 2018-12-20 09:12:40
Local clock offset: 0.114 ms
Remote clock offset: -76.441 ms

# Below is generated by plot.py at 2018-12-20 10:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.94 Mbit/s
95th percentile per-packet one-way delay: 238.864 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 240.435 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 37.49 Mbit/s
95th percentile per-packet one-way delay: 263.639 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 42.71 Mbit/s
95th percentile per-packet one-way delay: 184.190 ms
Loss rate: 1.10%
```

Run 4: Report of FillP — Data Link

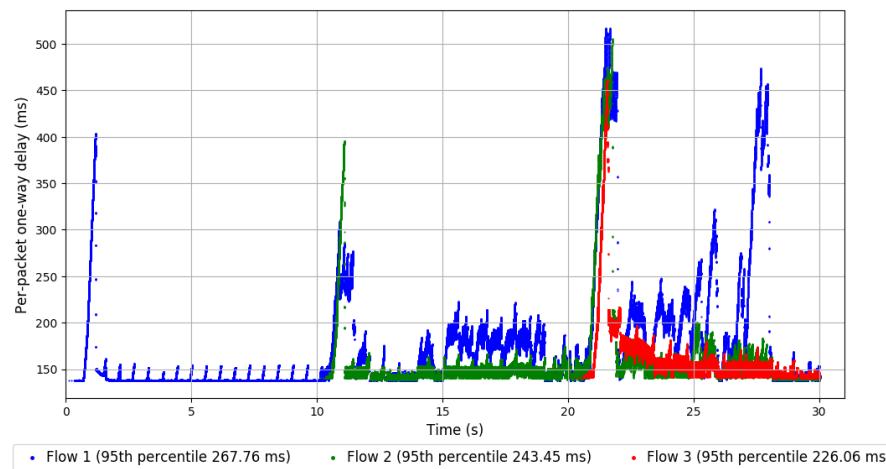
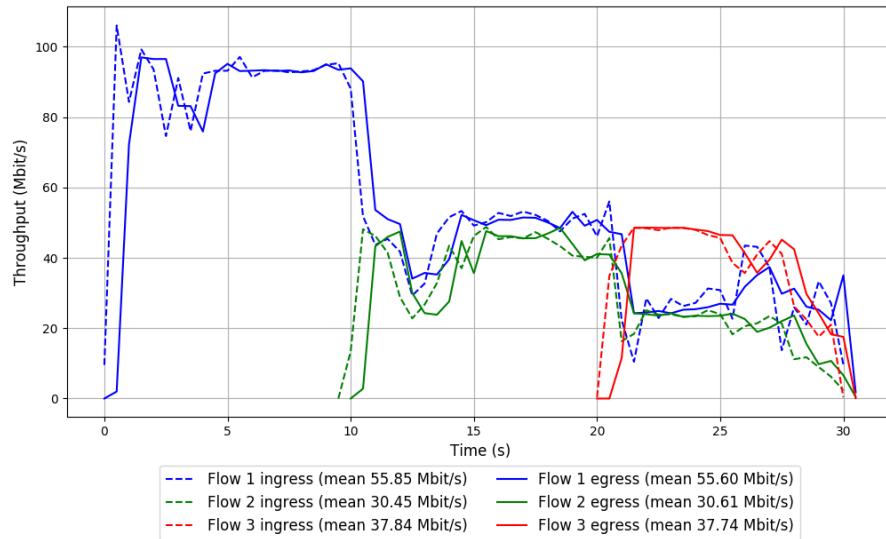


Run 5: Statistics of FillP

```
Start at: 2018-12-20 09:36:56
End at: 2018-12-20 09:37:26
Local clock offset: -2.134 ms
Remote clock offset: -68.992 ms

# Below is generated by plot.py at 2018-12-20 10:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.29 Mbit/s
95th percentile per-packet one-way delay: 262.673 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 267.756 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 243.454 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 226.055 ms
Loss rate: 1.70%
```

Run 5: Report of FillP — Data Link

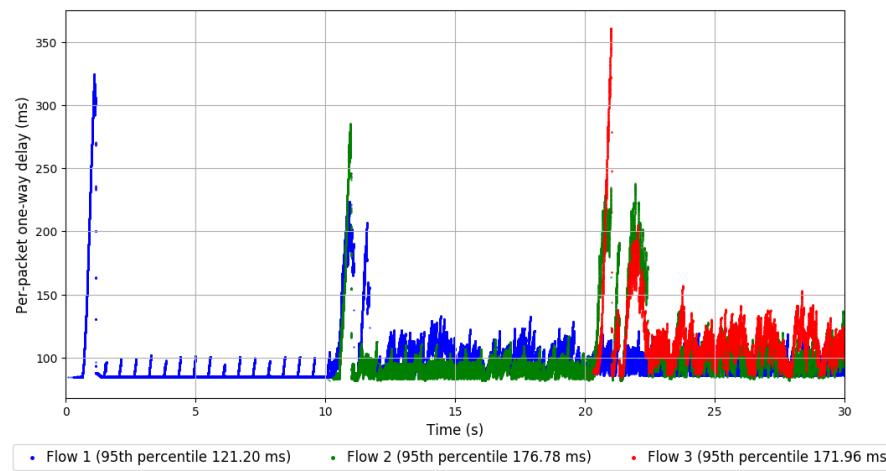
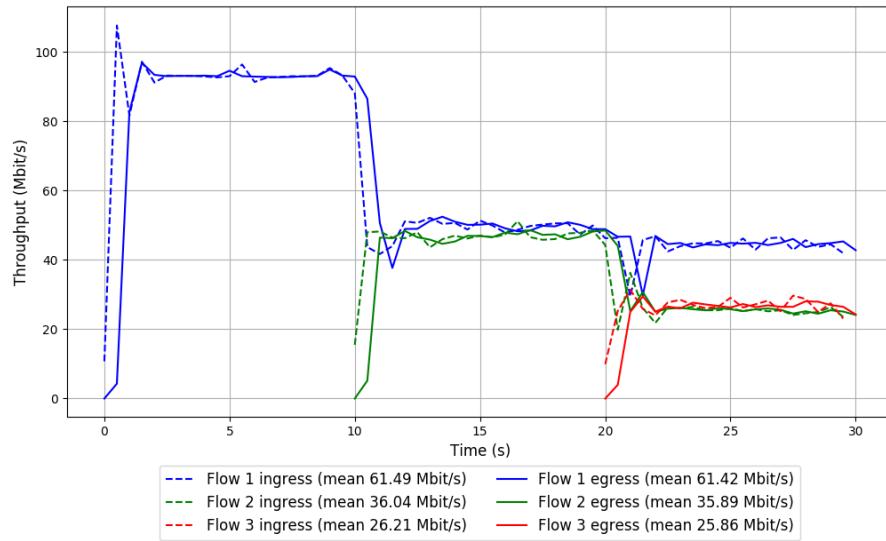


Run 1: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:05:58
End at: 2018-12-20 08:06:28
Local clock offset: -0.705 ms
Remote clock offset: -15.294 ms

# Below is generated by plot.py at 2018-12-20 10:00:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 147.241 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 121.204 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 176.778 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 171.956 ms
Loss rate: 2.11%
```

Run 1: Report of FillP-Sheep — Data Link

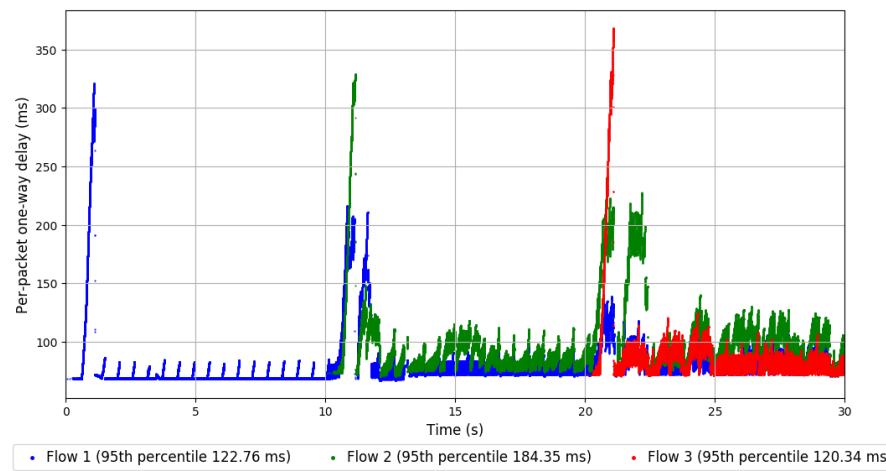
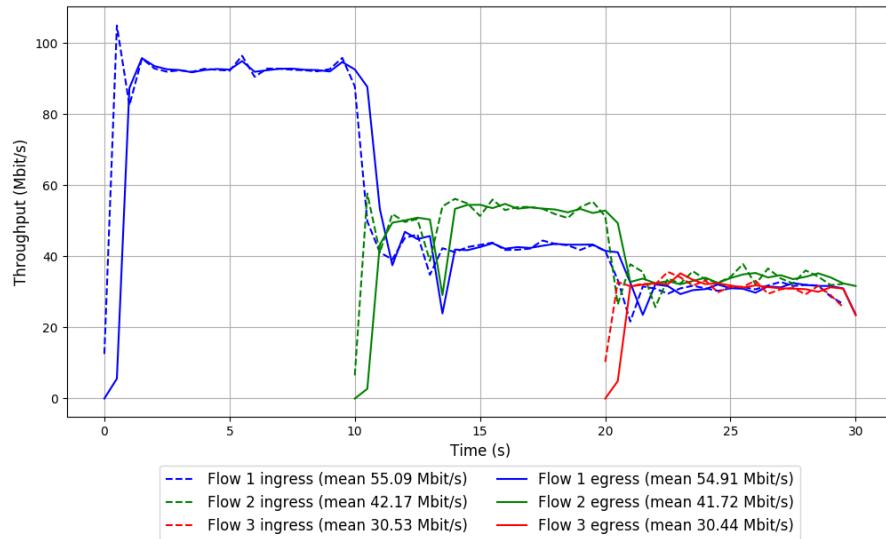


Run 2: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:30:15
End at: 2018-12-20 08:30:45
Local clock offset: 0.85 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2018-12-20 10:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.71 Mbit/s
95th percentile per-packet one-way delay: 144.034 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 122.758 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 41.72 Mbit/s
95th percentile per-packet one-way delay: 184.352 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 30.44 Mbit/s
95th percentile per-packet one-way delay: 120.339 ms
Loss rate: 0.98%
```

Run 2: Report of FillP-Sheep — Data Link

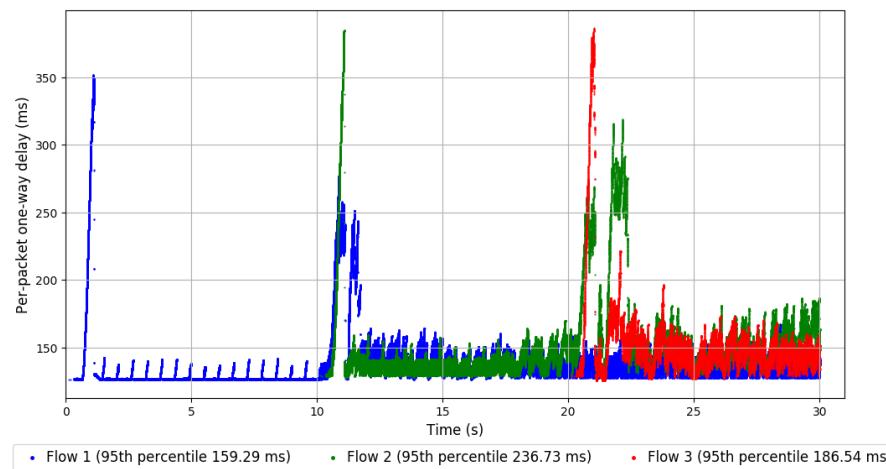
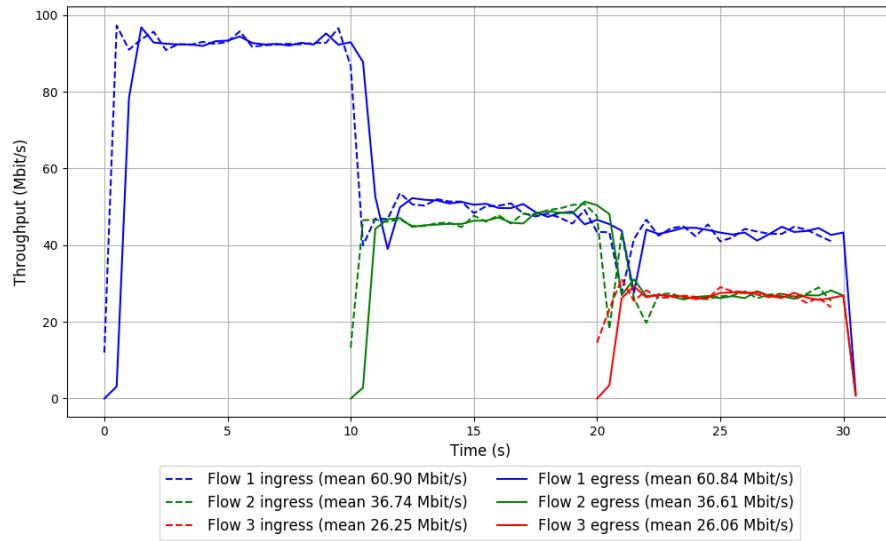


Run 3: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:54:29
End at: 2018-12-20 08:54:59
Local clock offset: -1.805 ms
Remote clock offset: -62.47 ms

# Below is generated by plot.py at 2018-12-20 10:00:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 184.294 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 159.292 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 236.730 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 186.538 ms
Loss rate: 1.39%
```

Run 3: Report of FillP-Sheep — Data Link

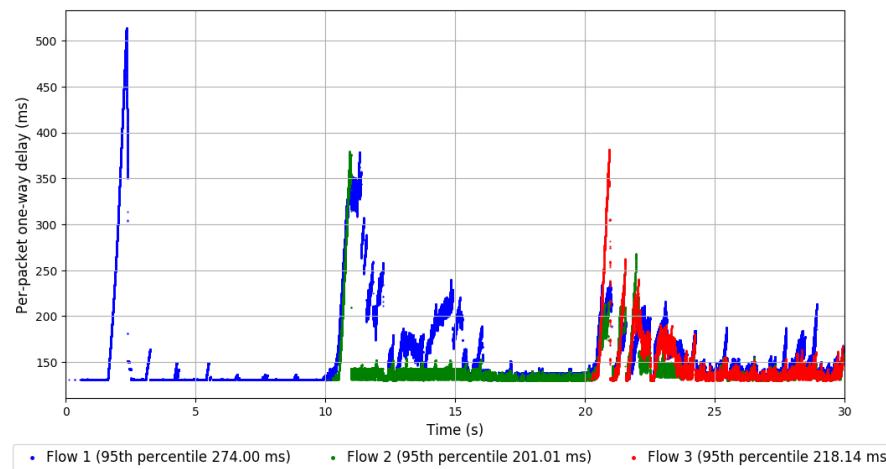
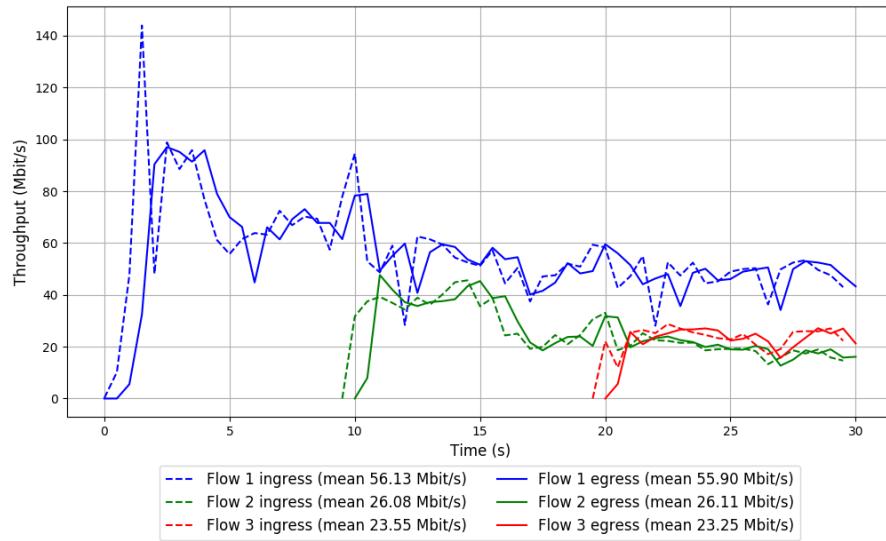


Run 4: Statistics of FillP-Sheep

```
Start at: 2018-12-20 09:20:07
End at: 2018-12-20 09:20:37
Local clock offset: -2.083 ms
Remote clock offset: -63.482 ms

# Below is generated by plot.py at 2018-12-20 10:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.05 Mbit/s
95th percentile per-packet one-way delay: 244.601 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 273.998 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 26.11 Mbit/s
95th percentile per-packet one-way delay: 201.009 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 218.142 ms
Loss rate: 2.55%
```

Run 4: Report of FillP-Sheep — Data Link

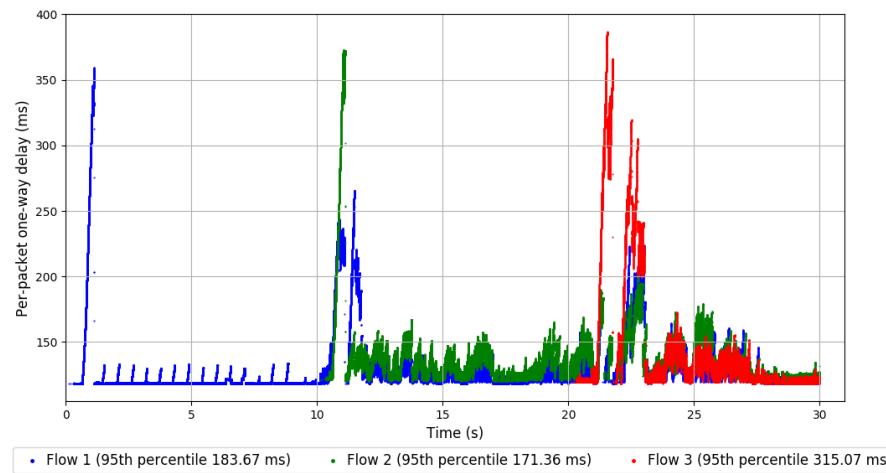
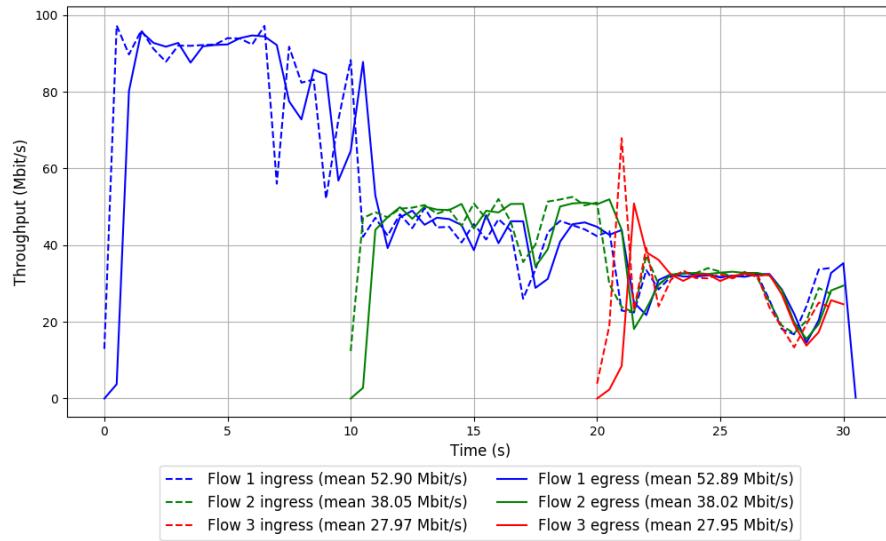


Run 5: Statistics of FillP-Sheep

```
Start at: 2018-12-20 09:45:09
End at: 2018-12-20 09:45:39
Local clock offset: 2.262 ms
Remote clock offset: -43.27 ms

# Below is generated by plot.py at 2018-12-20 10:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.39 Mbit/s
95th percentile per-packet one-way delay: 201.072 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 183.666 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 171.356 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 27.95 Mbit/s
95th percentile per-packet one-way delay: 315.066 ms
Loss rate: 1.06%
```

Run 5: Report of FillP-Sheep — Data Link

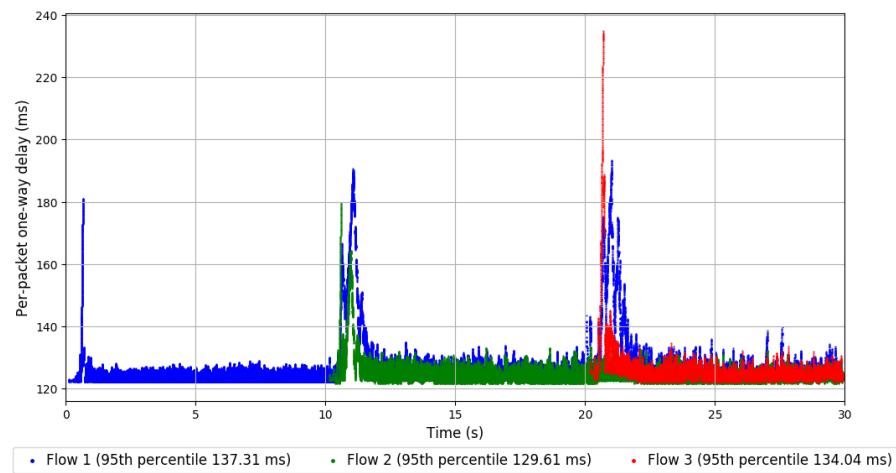
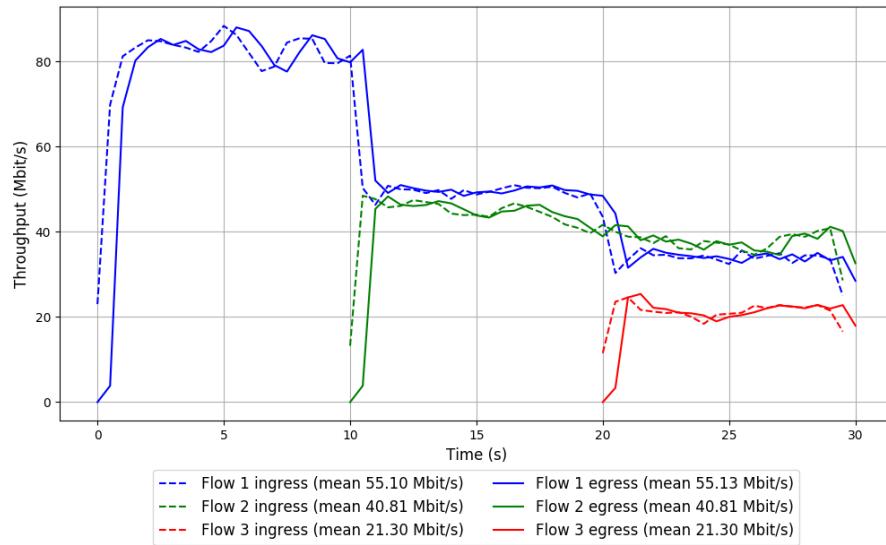


Run 1: Statistics of Indigo

```
Start at: 2018-12-20 08:11:06
End at: 2018-12-20 08:11:36
Local clock offset: -0.61 ms
Remote clock offset: -55.895 ms

# Below is generated by plot.py at 2018-12-20 10:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.19 Mbit/s
95th percentile per-packet one-way delay: 133.201 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.13 Mbit/s
95th percentile per-packet one-way delay: 137.306 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 129.610 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 134.042 ms
Loss rate: 0.81%
```

Run 1: Report of Indigo — Data Link

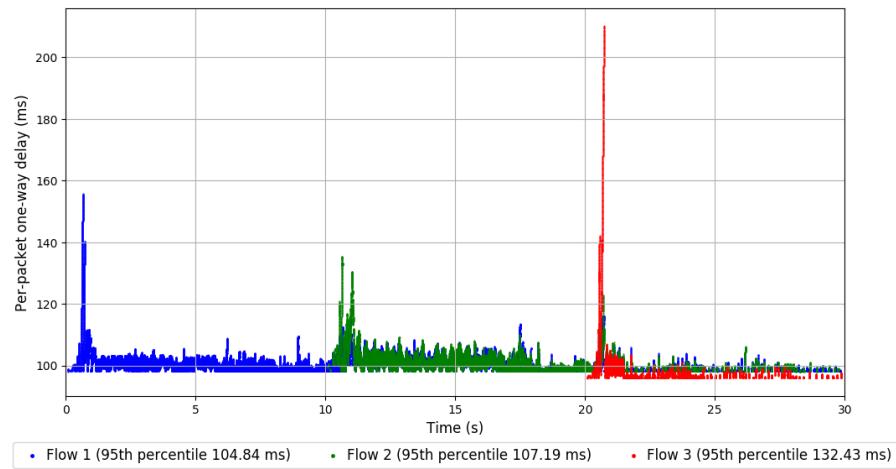
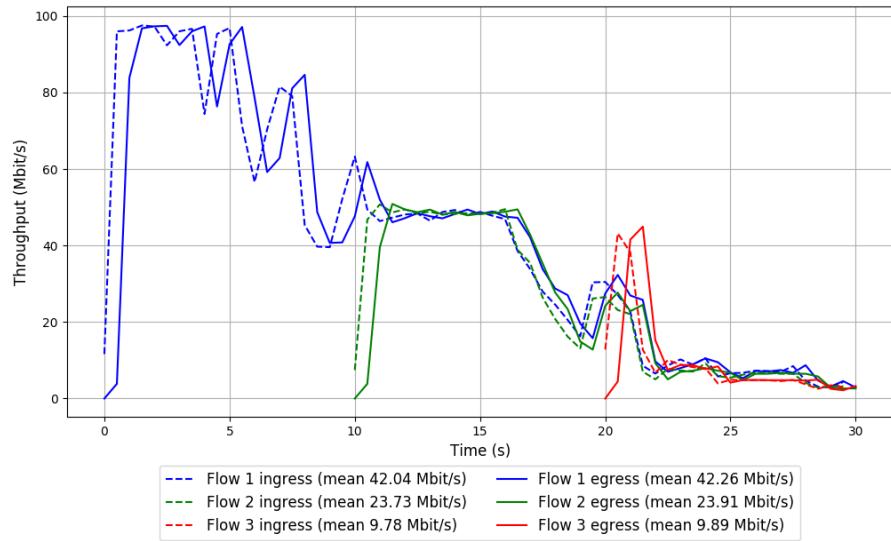


Run 2: Statistics of Indigo

```
Start at: 2018-12-20 08:35:26
End at: 2018-12-20 08:35:56
Local clock offset: 0.4 ms
Remote clock offset: -25.831 ms

# Below is generated by plot.py at 2018-12-20 10:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 105.616 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 42.26 Mbit/s
95th percentile per-packet one-way delay: 104.837 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 23.91 Mbit/s
95th percentile per-packet one-way delay: 107.193 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 132.428 ms
Loss rate: 0.57%
```

Run 2: Report of Indigo — Data Link

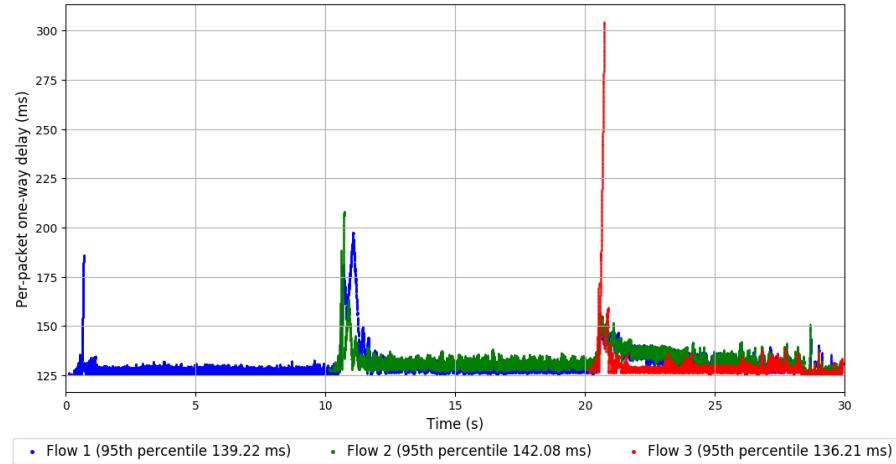
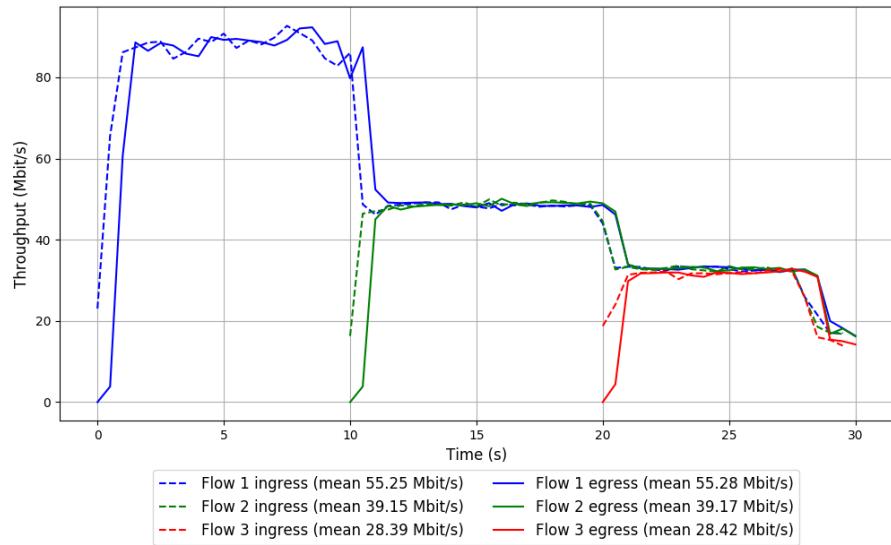


Run 3: Statistics of Indigo

```
Start at: 2018-12-20 09:00:01
End at: 2018-12-20 09:00:31
Local clock offset: -0.651 ms
Remote clock offset: -57.597 ms

# Below is generated by plot.py at 2018-12-20 10:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.56 Mbit/s
95th percentile per-packet one-way delay: 140.136 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 55.28 Mbit/s
95th percentile per-packet one-way delay: 139.216 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 142.080 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 136.208 ms
Loss rate: 0.70%
```

Run 3: Report of Indigo — Data Link

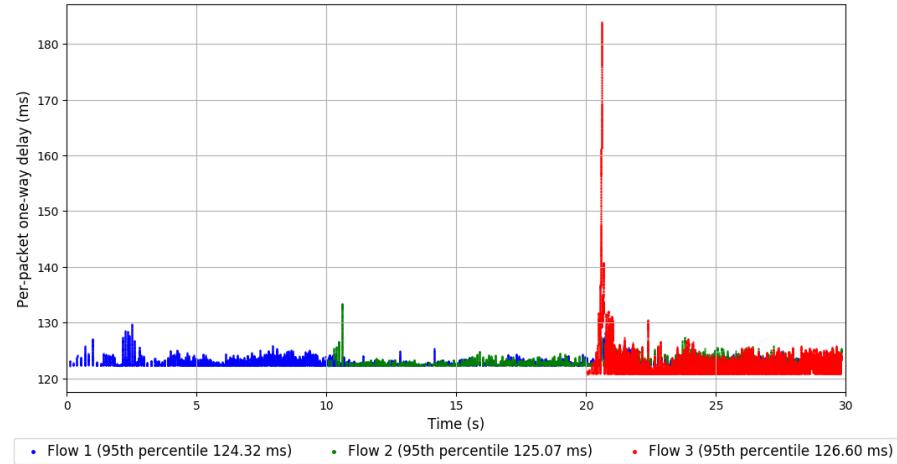
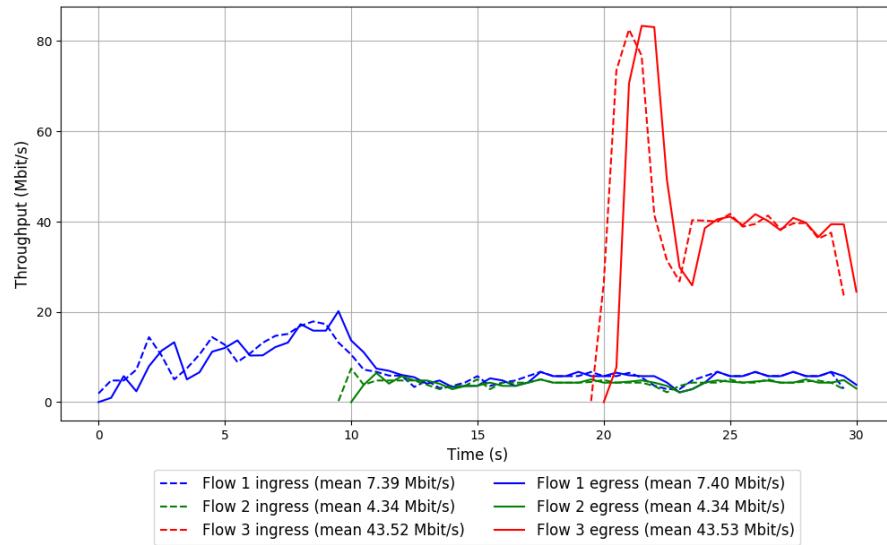


Run 4: Statistics of Indigo

```
Start at: 2018-12-20 09:25:09
End at: 2018-12-20 09:25:39
Local clock offset: -3.032 ms
Remote clock offset: -54.691 ms

# Below is generated by plot.py at 2018-12-20 10:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 125.322 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 124.323 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 125.068 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 126.603 ms
Loss rate: 0.77%
```

Run 4: Report of Indigo — Data Link

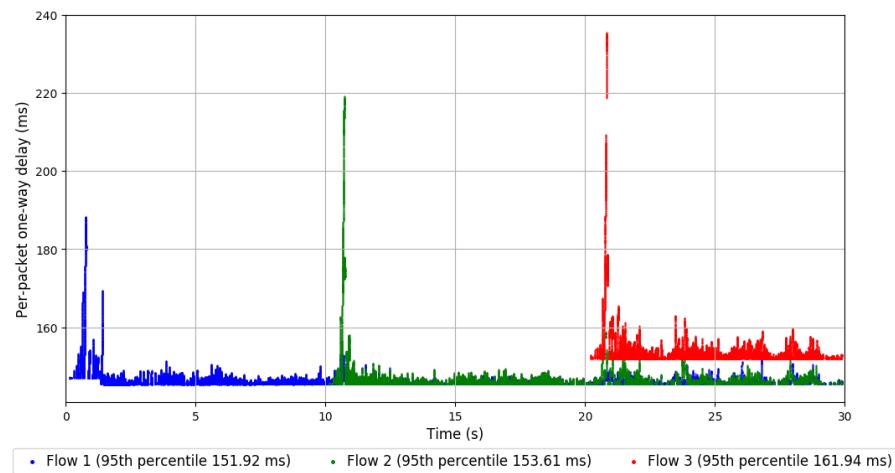
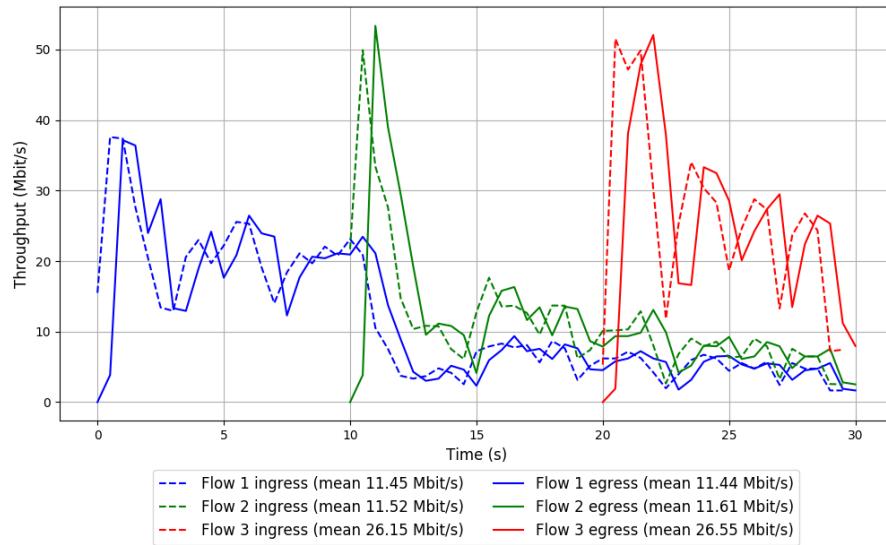


Run 5: Statistics of Indigo

```
Start at: 2018-12-20 09:50:59
End at: 2018-12-20 09:51:29
Local clock offset: -1.643 ms
Remote clock offset: -72.963 ms

# Below is generated by plot.py at 2018-12-20 10:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.76 Mbit/s
95th percentile per-packet one-way delay: 158.216 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 151.921 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 153.612 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 26.55 Mbit/s
95th percentile per-packet one-way delay: 161.939 ms
Loss rate: 0.42%
```

Run 5: Report of Indigo — Data Link

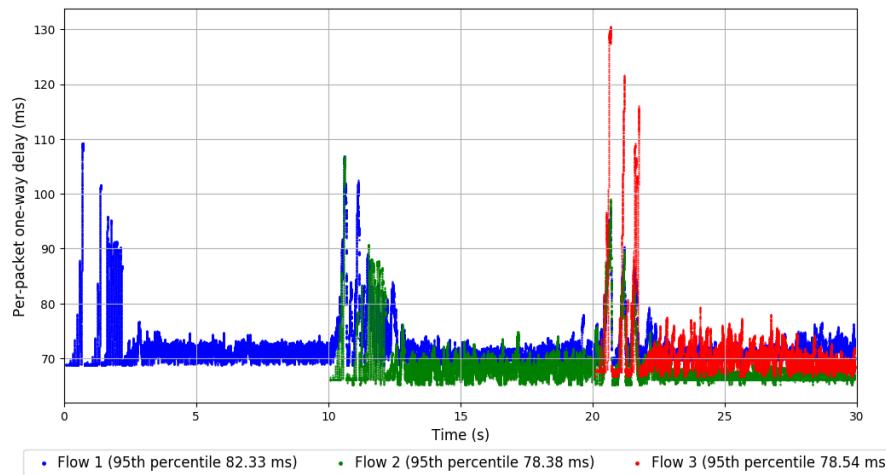
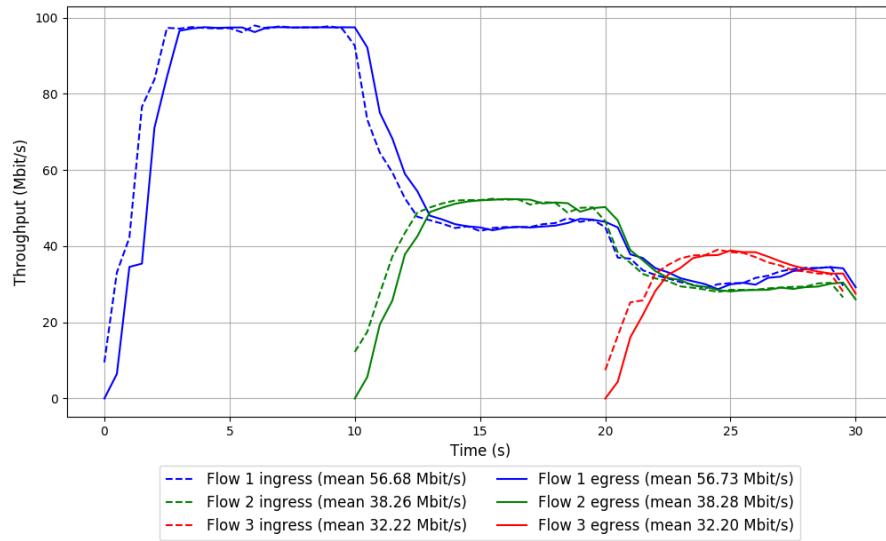


Run 1: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 07:59:06
End at: 2018-12-20 07:59:36
Local clock offset: -1.23 ms
Remote clock offset: -0.507 ms

# Below is generated by plot.py at 2018-12-20 10:01:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 81.330 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 56.73 Mbit/s
95th percentile per-packet one-way delay: 82.326 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 38.28 Mbit/s
95th percentile per-packet one-way delay: 78.382 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 78.544 ms
Loss rate: 0.80%
```

Run 1: Report of Indigo-MusesD — Data Link

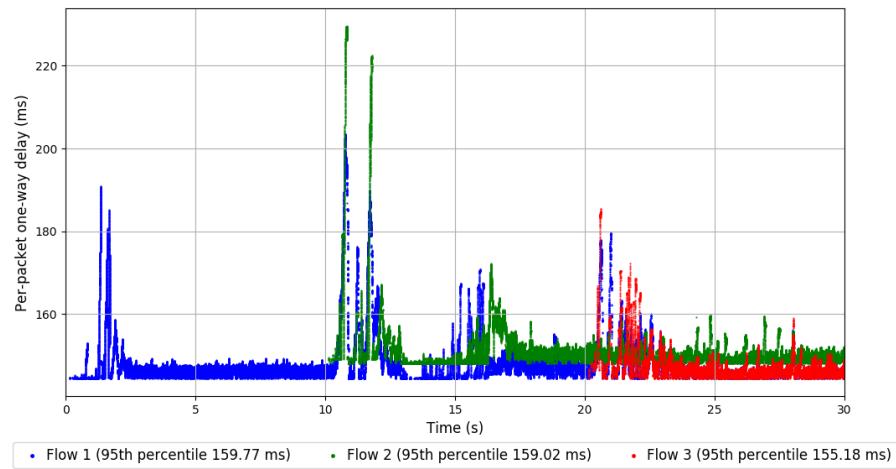
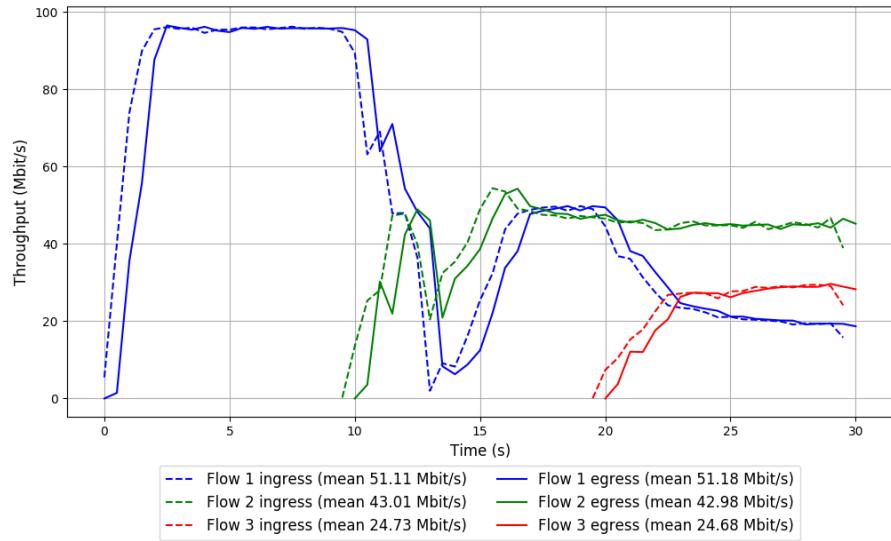


Run 2: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 08:23:35
End at: 2018-12-20 08:24:05
Local clock offset: -1.017 ms
Remote clock offset: -78.943 ms

# Below is generated by plot.py at 2018-12-20 10:01:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 159.036 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 51.18 Mbit/s
95th percentile per-packet one-way delay: 159.766 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 159.017 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 155.176 ms
Loss rate: 0.92%
```

Run 2: Report of Indigo-MusesD — Data Link

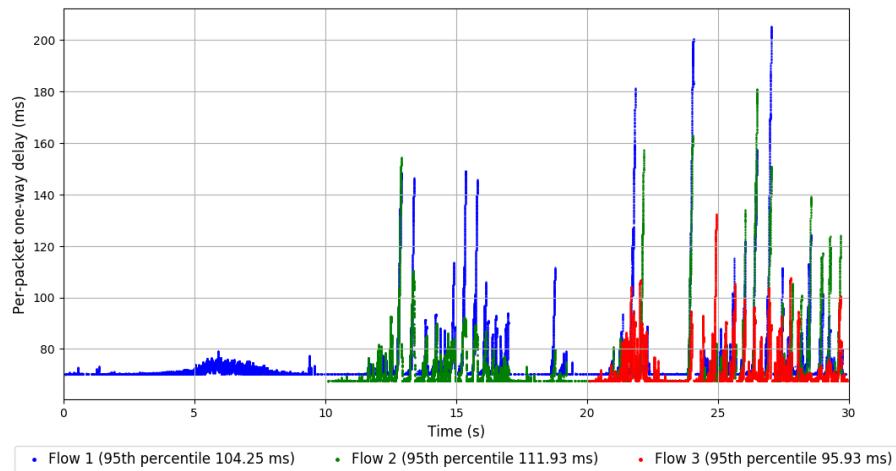
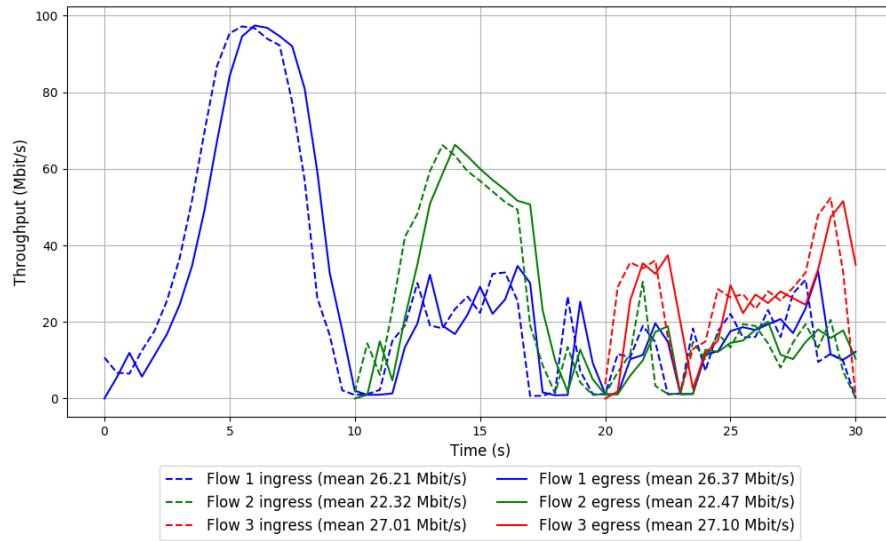


Run 3: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 08:47:48
End at: 2018-12-20 08:48:18
Local clock offset: 0.095 ms
Remote clock offset: -2.707 ms

# Below is generated by plot.py at 2018-12-20 10:01:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 103.675 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 26.37 Mbit/s
95th percentile per-packet one-way delay: 104.245 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 22.47 Mbit/s
95th percentile per-packet one-way delay: 111.931 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 27.10 Mbit/s
95th percentile per-packet one-way delay: 95.930 ms
Loss rate: 1.12%
```

Run 3: Report of Indigo-MusesD — Data Link

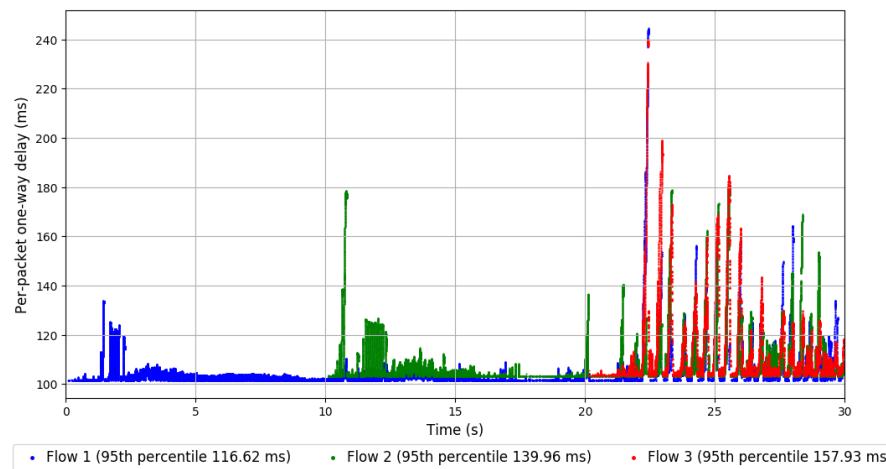
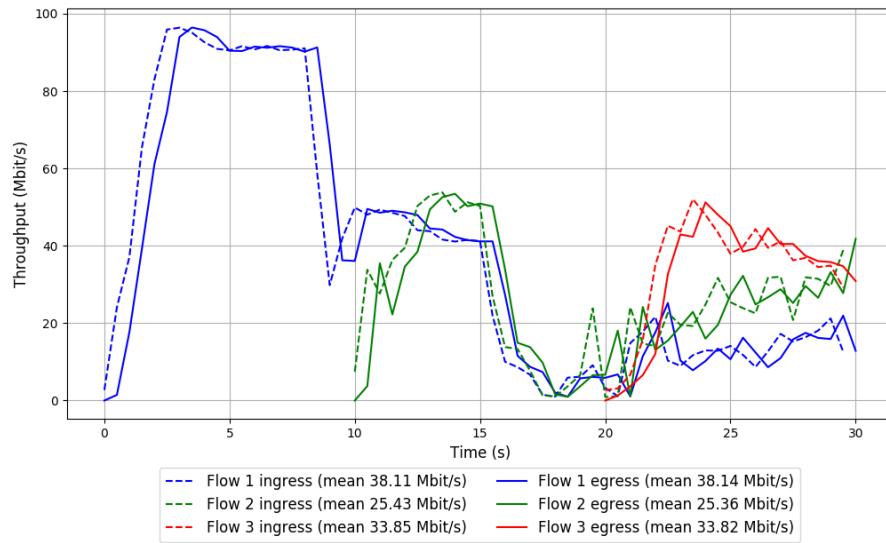


Run 4: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 09:13:29
End at: 2018-12-20 09:13:59
Local clock offset: -1.923 ms
Remote clock offset: -34.623 ms

# Below is generated by plot.py at 2018-12-20 10:01:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.12 Mbit/s
95th percentile per-packet one-way delay: 129.986 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 116.623 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 139.960 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 33.82 Mbit/s
95th percentile per-packet one-way delay: 157.931 ms
Loss rate: 0.90%
```

Run 4: Report of Indigo-MusesD — Data Link

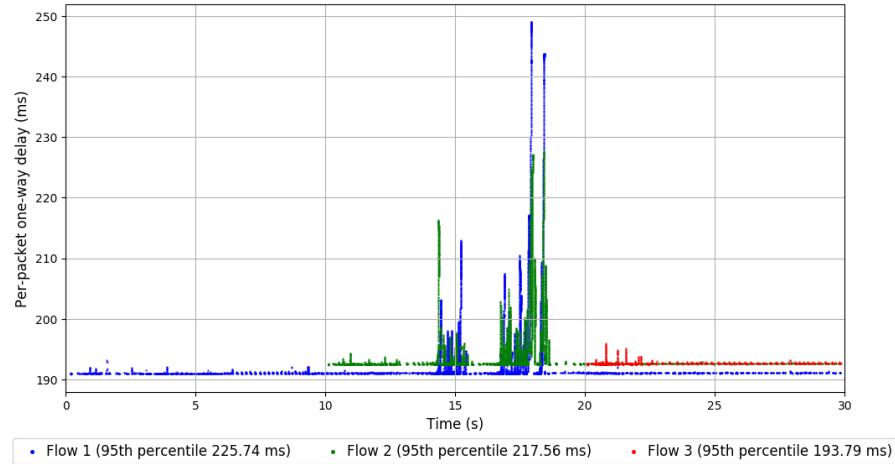
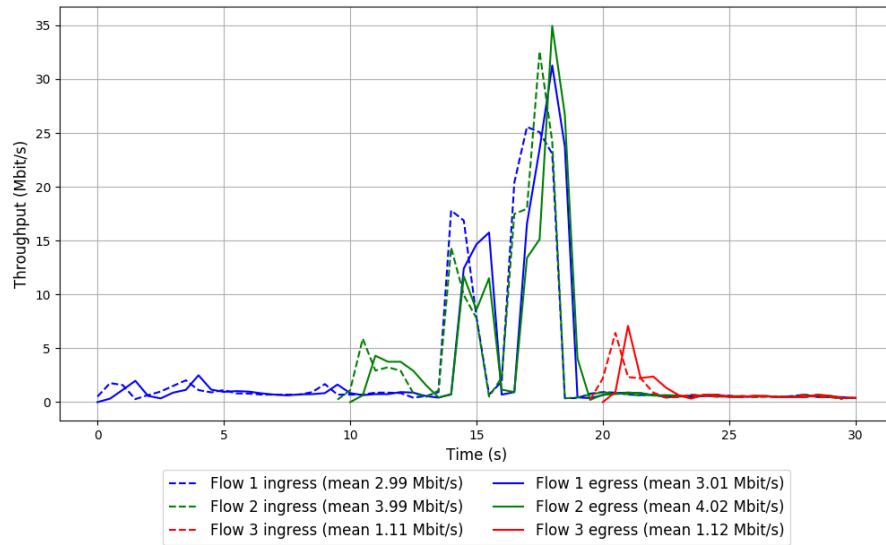


Run 5: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 09:38:21
End at: 2018-12-20 09:38:51
Local clock offset: -1.874 ms
Remote clock offset: -120.402 ms

# Below is generated by plot.py at 2018-12-20 10:01:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 218.083 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 225.735 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 217.562 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 193.795 ms
Loss rate: 1.05%
```

Run 5: Report of Indigo-MusesD — Data Link

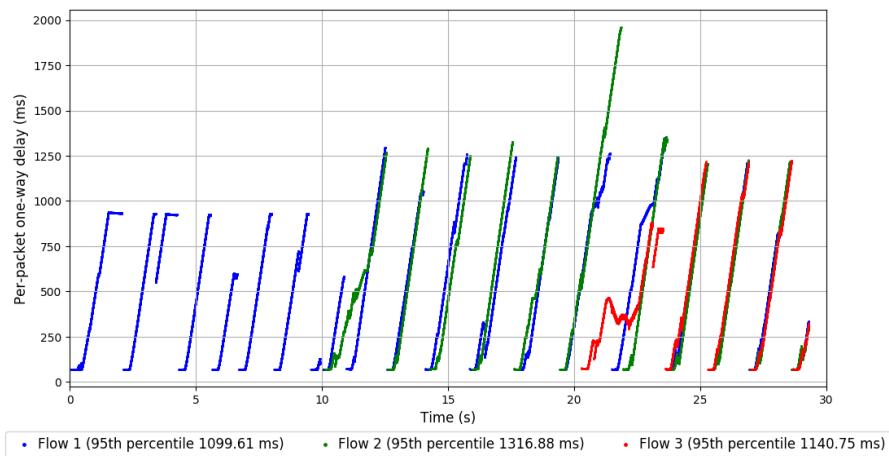
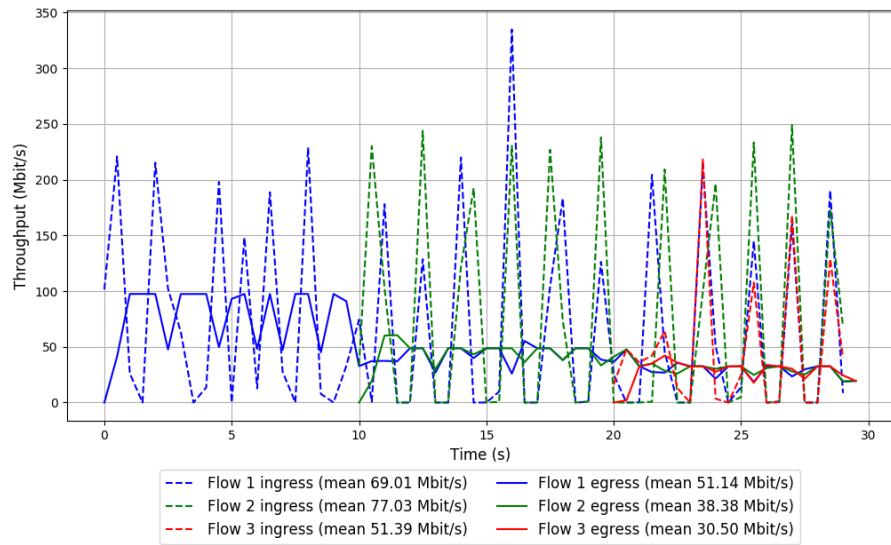


Run 1: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 07:53:00
End at: 2018-12-20 07:53:30
Local clock offset: 1.317 ms
Remote clock offset: -2.133 ms

# Below is generated by plot.py at 2018-12-20 10:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 1191.172 ms
Loss rate: 36.12%
-- Flow 1:
Average throughput: 51.14 Mbit/s
95th percentile per-packet one-way delay: 1099.605 ms
Loss rate: 25.35%
-- Flow 2:
Average throughput: 38.38 Mbit/s
95th percentile per-packet one-way delay: 1316.879 ms
Loss rate: 49.73%
-- Flow 3:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 1140.748 ms
Loss rate: 39.68%
```

Run 1: Report of Indigo-MusesT — Data Link

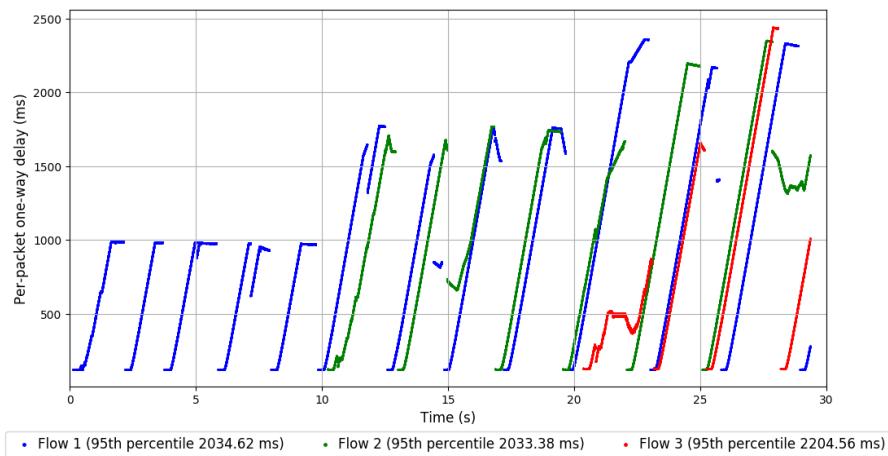
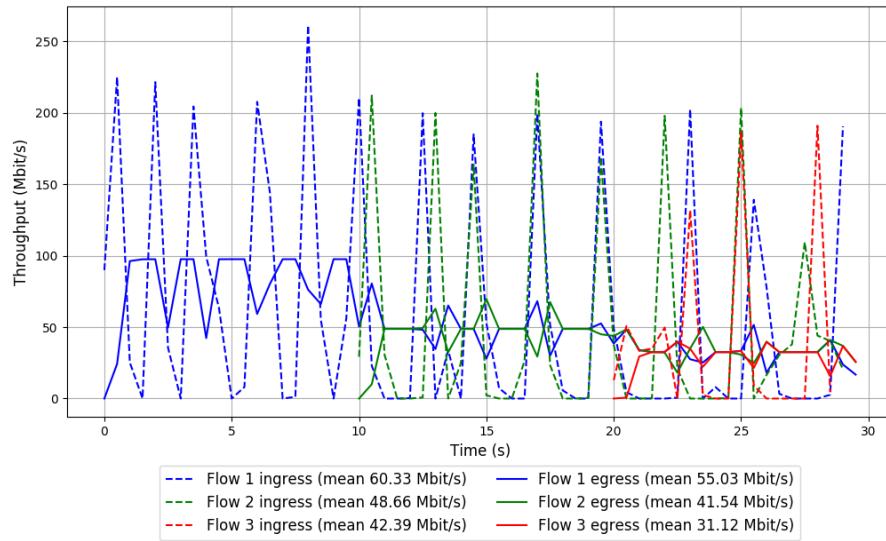


Run 2: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 08:17:17
End at: 2018-12-20 08:17:47
Local clock offset: -1.286 ms
Remote clock offset: -59.63 ms

# Below is generated by plot.py at 2018-12-20 10:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 2055.755 ms
Loss rate: 12.20%
-- Flow 1:
Average throughput: 55.03 Mbit/s
95th percentile per-packet one-way delay: 2034.617 ms
Loss rate: 9.03%
-- Flow 2:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 2033.377 ms
Loss rate: 14.95%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 2204.557 ms
Loss rate: 20.78%
```

Run 2: Report of Indigo-MusesT — Data Link

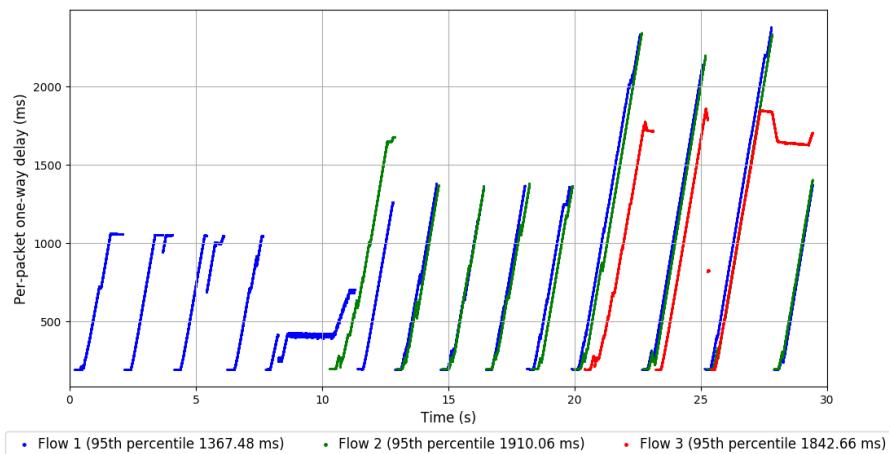
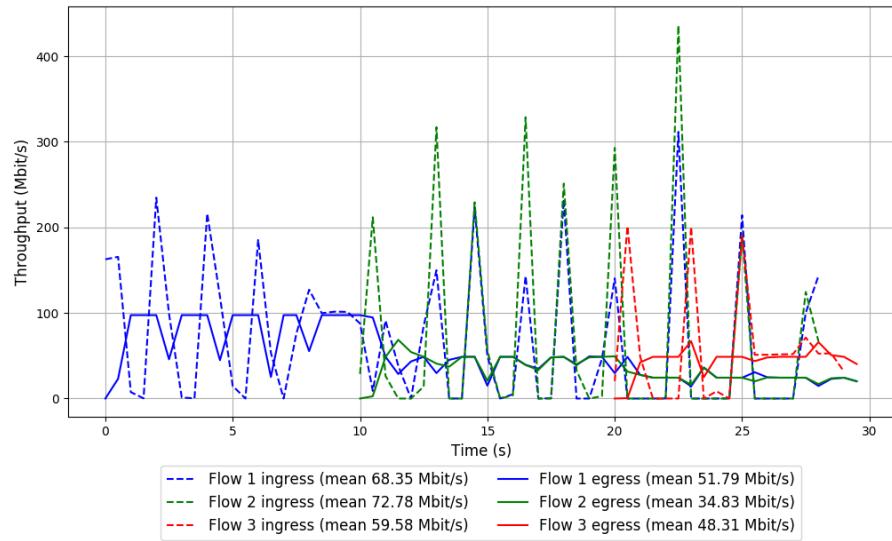


Run 3: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 08:41:36
End at: 2018-12-20 08:42:06
Local clock offset: -0.082 ms
Remote clock offset: -124.397 ms

# Below is generated by plot.py at 2018-12-20 10:02:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 1779.478 ms
Loss rate: 30.59%
-- Flow 1:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 1367.484 ms
Loss rate: 21.12%
-- Flow 2:
Average throughput: 34.83 Mbit/s
95th percentile per-packet one-way delay: 1910.062 ms
Loss rate: 49.02%
-- Flow 3:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 1842.656 ms
Loss rate: 19.65%
```

Run 3: Report of Indigo-MusesT — Data Link

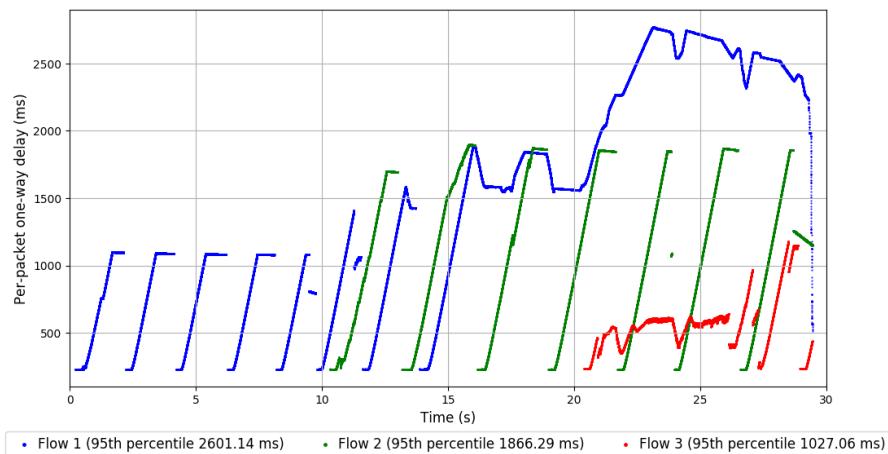
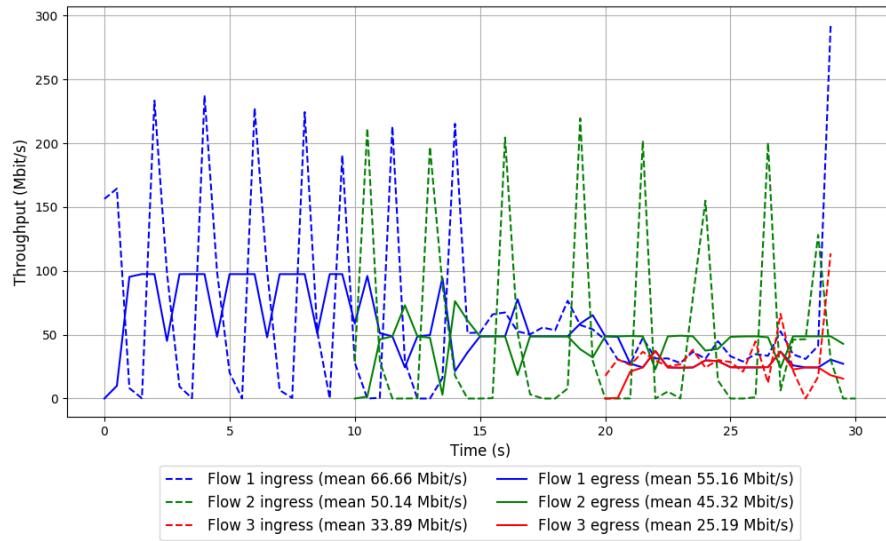


Run 4: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 09:07:03
End at: 2018-12-20 09:07:33
Local clock offset: -0.232 ms
Remote clock offset: -160.822 ms

# Below is generated by plot.py at 2018-12-20 10:02:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 2520.404 ms
Loss rate: 17.01%
-- Flow 1:
Average throughput: 55.16 Mbit/s
95th percentile per-packet one-way delay: 2601.145 ms
Loss rate: 17.46%
-- Flow 2:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 1866.290 ms
Loss rate: 13.54%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 1027.055 ms
Loss rate: 25.52%
```

Run 4: Report of Indigo-MusesT — Data Link

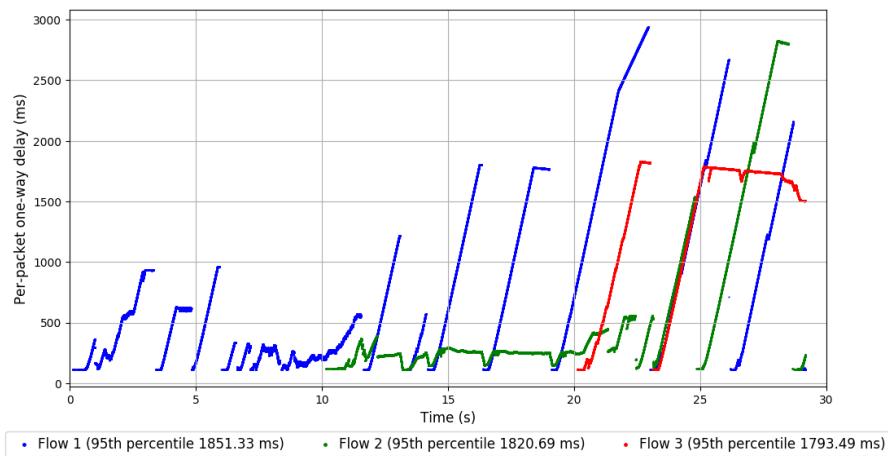
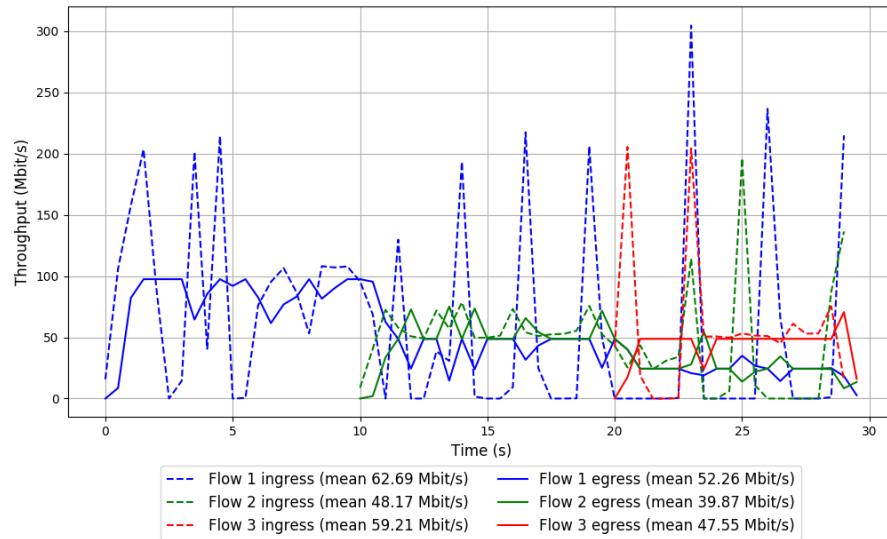


Run 5: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 09:31:33
End at: 2018-12-20 09:32:03
Local clock offset: 4.169 ms
Remote clock offset: -40.299 ms

# Below is generated by plot.py at 2018-12-20 10:02:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 1820.330 ms
Loss rate: 18.17%
-- Flow 1:
Average throughput: 52.26 Mbit/s
95th percentile per-packet one-way delay: 1851.333 ms
Loss rate: 17.38%
-- Flow 2:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 1820.687 ms
Loss rate: 18.38%
-- Flow 3:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 1793.489 ms
Loss rate: 20.48%
```

Run 5: Report of Indigo-MusesT — Data Link

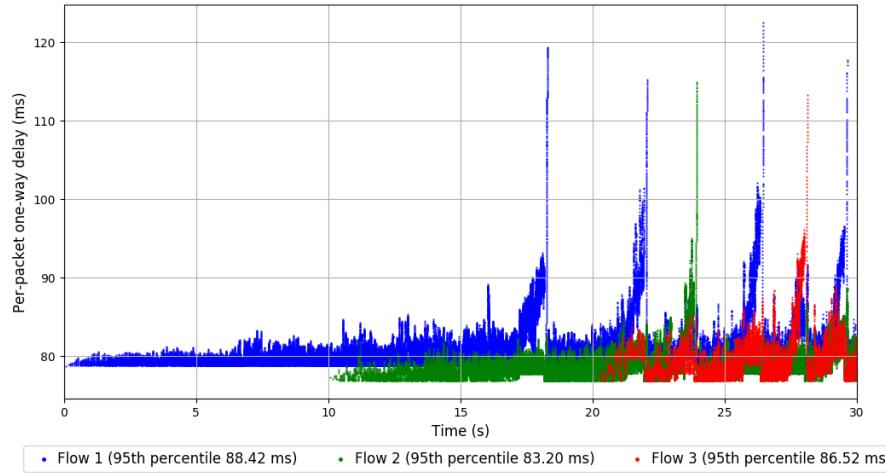
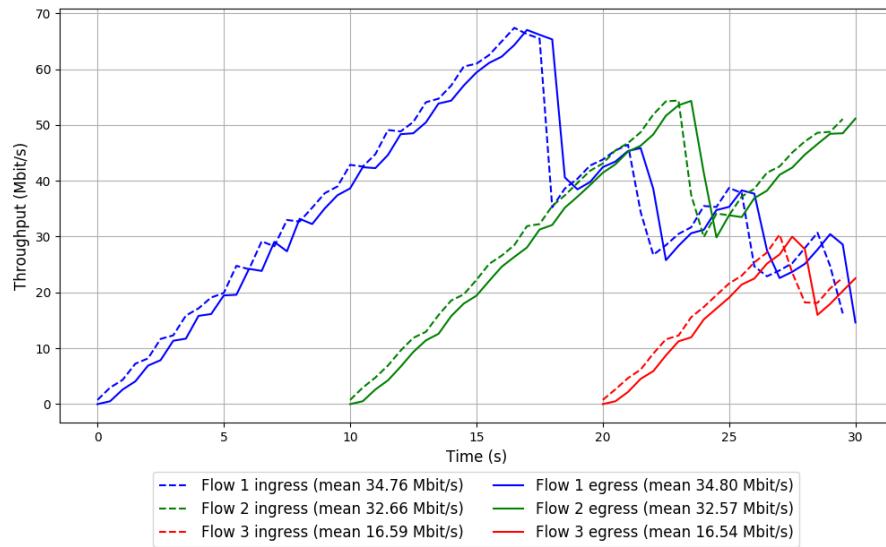


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-12-20 07:51:47
End at: 2018-12-20 07:52:17
Local clock offset: -1.143 ms
Remote clock offset: -12.545 ms

# Below is generated by plot.py at 2018-12-20 10:02:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.94 Mbit/s
95th percentile per-packet one-way delay: 86.501 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 88.425 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 83.197 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 86.516 ms
Loss rate: 1.11%
```

Run 1: Report of LEDBAT — Data Link

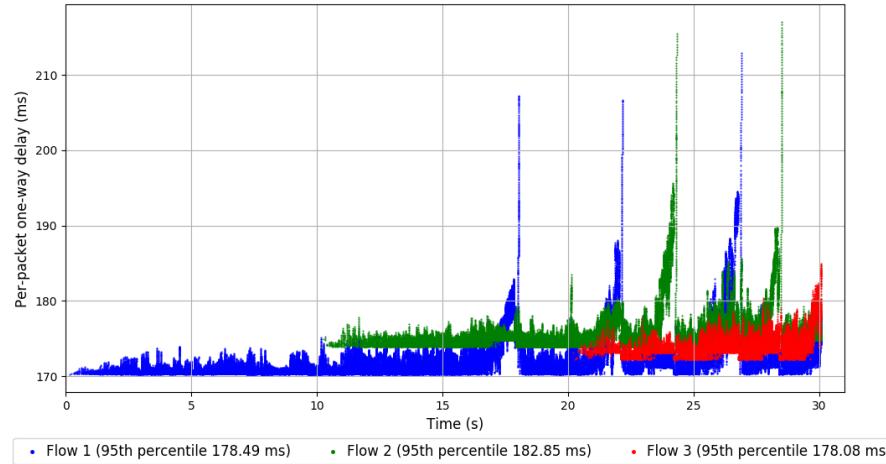
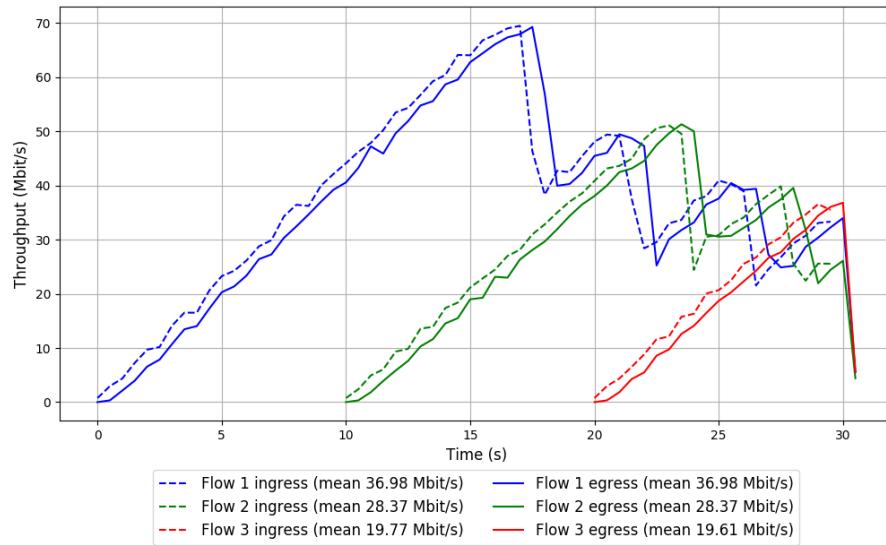


Run 2: Statistics of LEDBAT

```
Start at: 2018-12-20 08:16:04
End at: 2018-12-20 08:16:34
Local clock offset: -1.519 ms
Remote clock offset: -105.333 ms

# Below is generated by plot.py at 2018-12-20 10:02:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.35 Mbit/s
95th percentile per-packet one-way delay: 179.665 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 36.98 Mbit/s
95th percentile per-packet one-way delay: 178.487 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 182.849 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 19.61 Mbit/s
95th percentile per-packet one-way delay: 178.079 ms
Loss rate: 1.54%
```

Run 2: Report of LEDBAT — Data Link

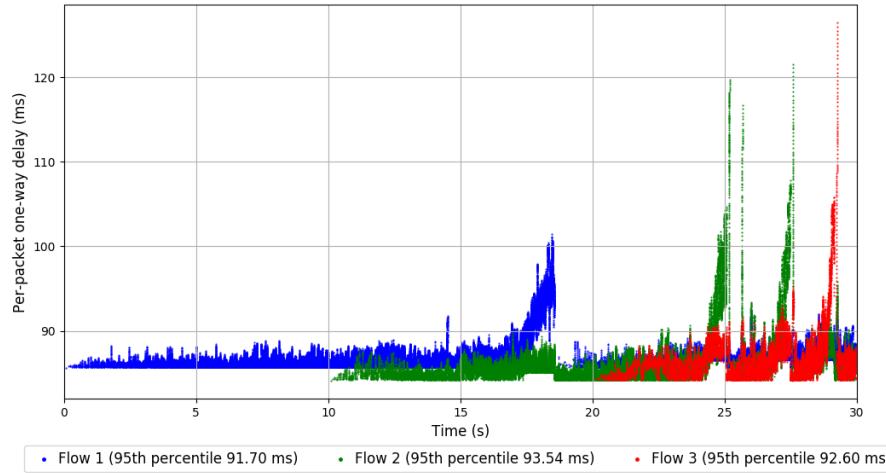
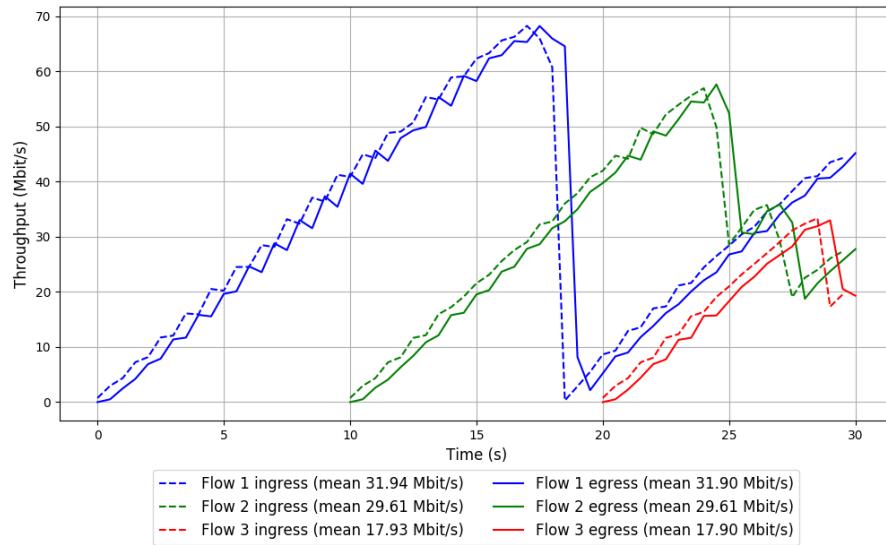


Run 3: Statistics of LEDBAT

```
Start at: 2018-12-20 08:40:22
End at: 2018-12-20 08:40:52
Local clock offset: -0.547 ms
Remote clock offset: -17.082 ms

# Below is generated by plot.py at 2018-12-20 10:02:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 92.239 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 91.698 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 93.544 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 17.90 Mbit/s
95th percentile per-packet one-way delay: 92.604 ms
Loss rate: 0.91%
```

Run 3: Report of LEDBAT — Data Link

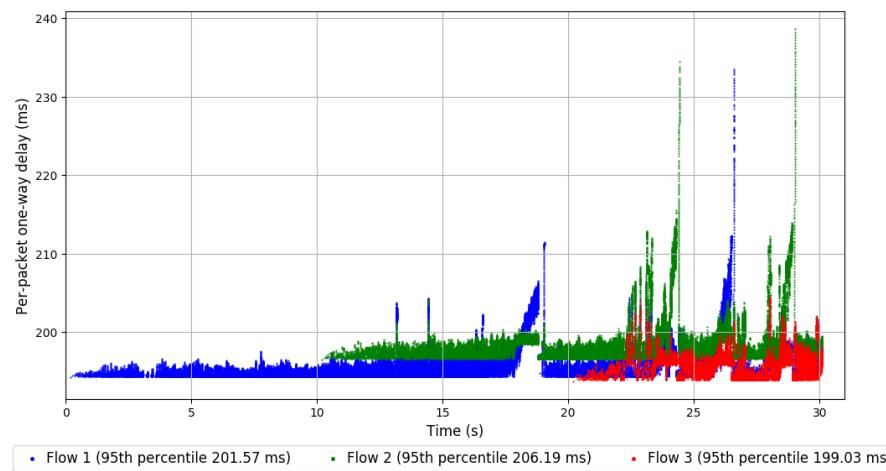
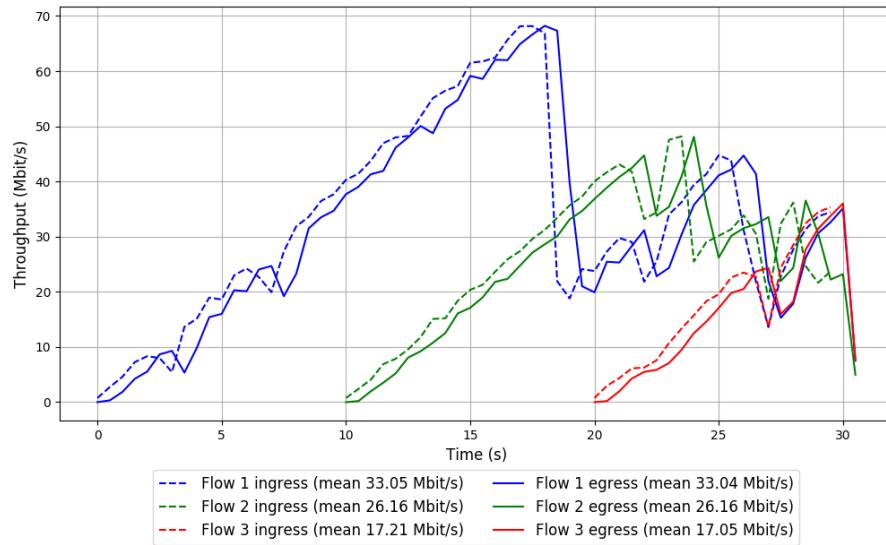


Run 4: Statistics of LEDBAT

```
Start at: 2018-12-20 09:05:41
End at: 2018-12-20 09:06:11
Local clock offset: 0.378 ms
Remote clock offset: -126.104 ms

# Below is generated by plot.py at 2018-12-20 10:03:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 202.229 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 201.566 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 26.16 Mbit/s
95th percentile per-packet one-way delay: 206.194 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 17.05 Mbit/s
95th percentile per-packet one-way delay: 199.028 ms
Loss rate: 1.65%
```

Run 4: Report of LEDBAT — Data Link

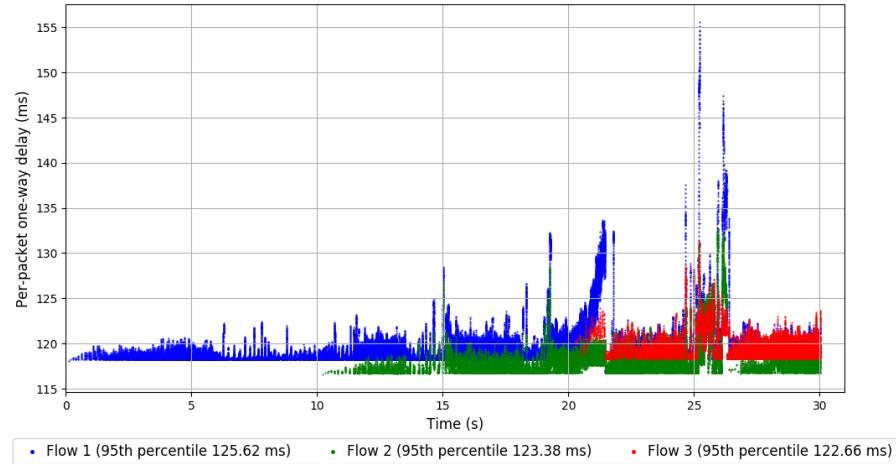
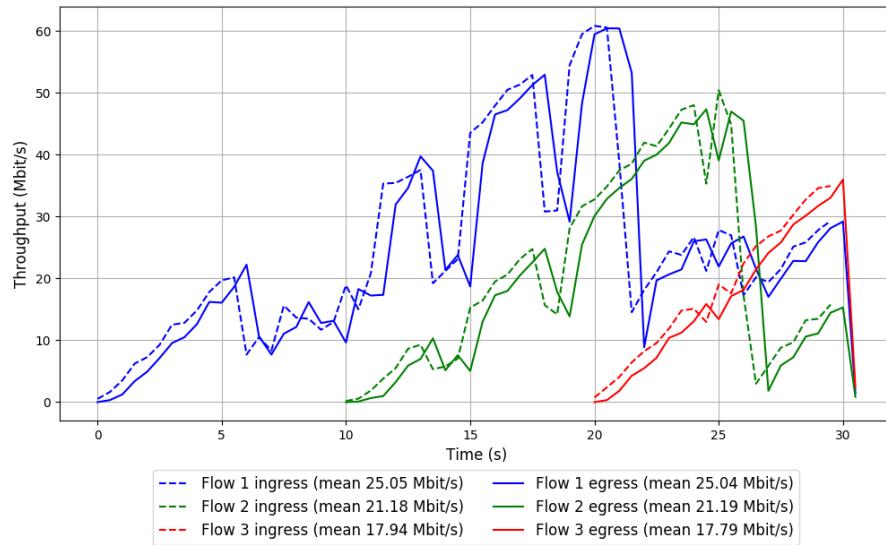


Run 5: Statistics of LEDBAT

```
Start at: 2018-12-20 09:30:05
End at: 2018-12-20 09:30:35
Local clock offset: -0.848 ms
Remote clock offset: -47.159 ms

# Below is generated by plot.py at 2018-12-20 10:03:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 124.126 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 25.04 Mbit/s
95th percentile per-packet one-way delay: 125.621 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 21.19 Mbit/s
95th percentile per-packet one-way delay: 123.376 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 122.659 ms
Loss rate: 1.63%
```

Run 5: Report of LEDBAT — Data Link

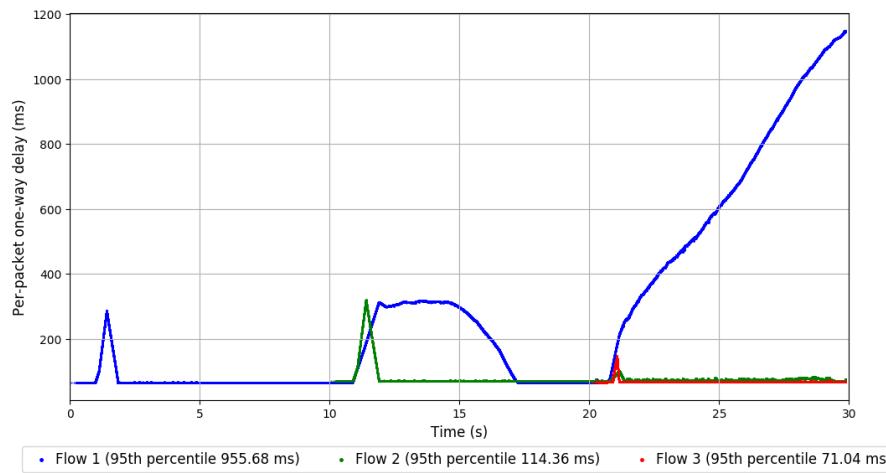
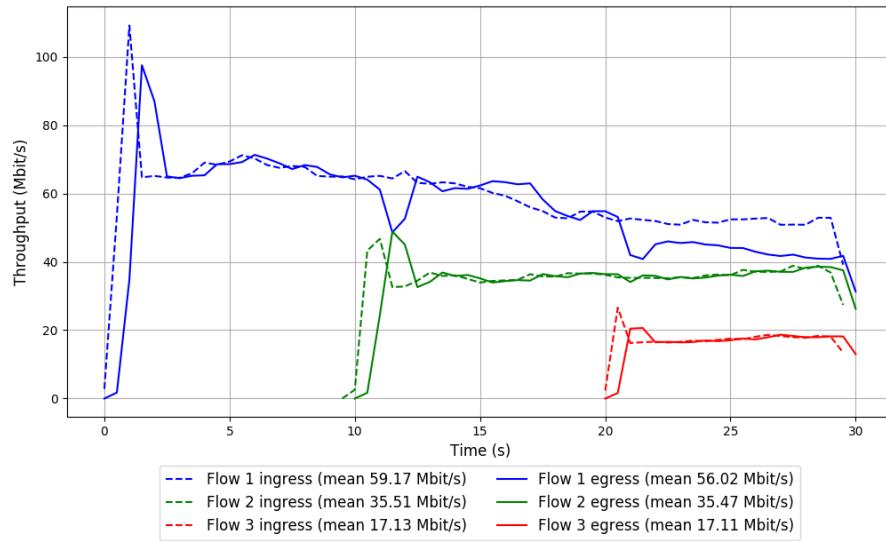


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-12-20 07:56:37
End at: 2018-12-20 07:57:07
Local clock offset: -0.353 ms
Remote clock offset: -1.189 ms

# Below is generated by plot.py at 2018-12-20 10:03:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 814.007 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 56.02 Mbit/s
95th percentile per-packet one-way delay: 955.684 ms
Loss rate: 5.57%
-- Flow 2:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 114.358 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 17.11 Mbit/s
95th percentile per-packet one-way delay: 71.036 ms
Loss rate: 0.93%
```

Run 1: Report of PCC-Allegro — Data Link

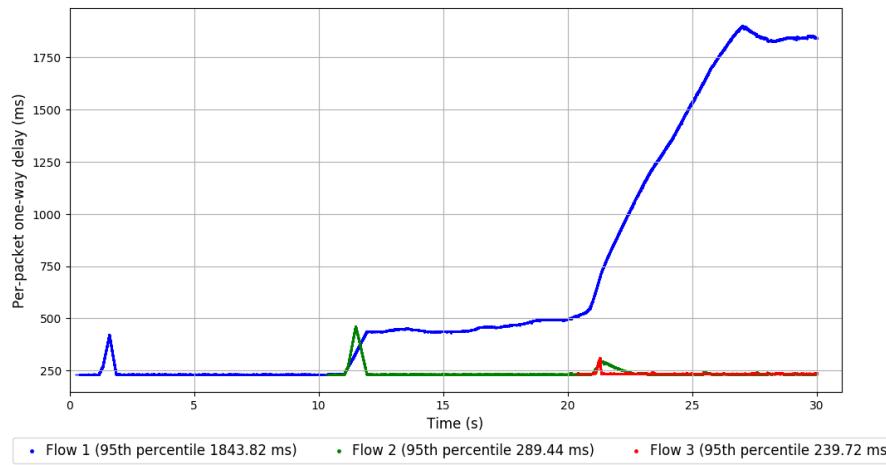
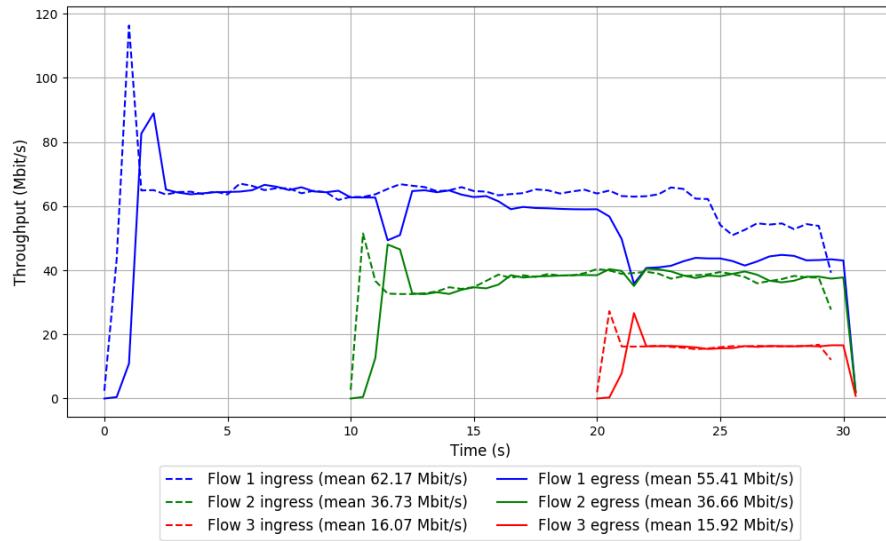


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-12-20 08:20:54
End at: 2018-12-20 08:21:24
Local clock offset: 1.257 ms
Remote clock offset: -164.223 ms

# Below is generated by plot.py at 2018-12-20 10:03:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 1834.528 ms
Loss rate: 7.74%
-- Flow 1:
Average throughput: 55.41 Mbit/s
95th percentile per-packet one-way delay: 1843.819 ms
Loss rate: 11.07%
-- Flow 2:
Average throughput: 36.66 Mbit/s
95th percentile per-packet one-way delay: 289.441 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 239.722 ms
Loss rate: 1.71%
```

Run 2: Report of PCC-Allegro — Data Link

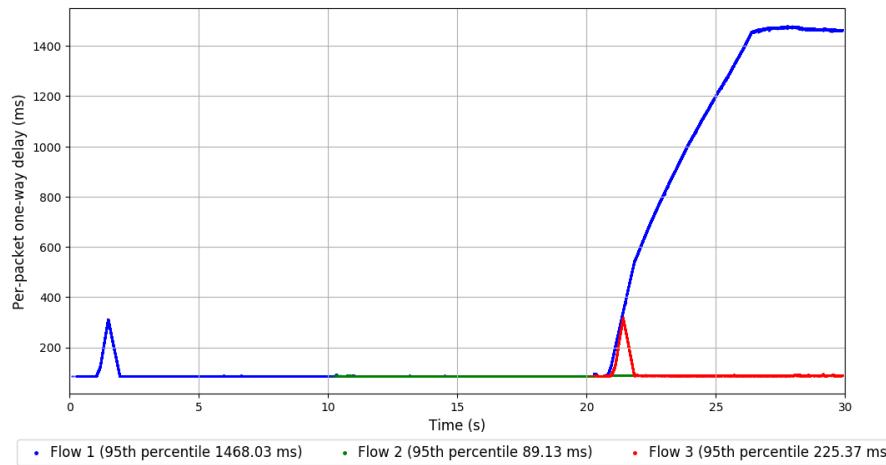
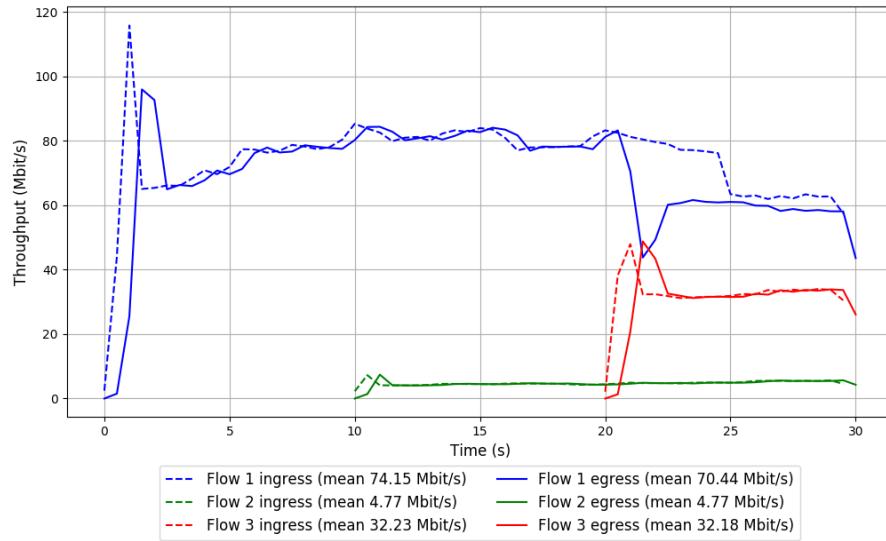


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-12-20 08:45:14
End at: 2018-12-20 08:45:44
Local clock offset: -0.726 ms
Remote clock offset: -19.797 ms

# Below is generated by plot.py at 2018-12-20 10:03:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 1466.864 ms
Loss rate: 4.86%
-- Flow 1:
Average throughput: 70.44 Mbit/s
95th percentile per-packet one-way delay: 1468.033 ms
Loss rate: 5.49%
-- Flow 2:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 89.127 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 225.367 ms
Loss rate: 1.73%
```

Run 3: Report of PCC-Allegro — Data Link

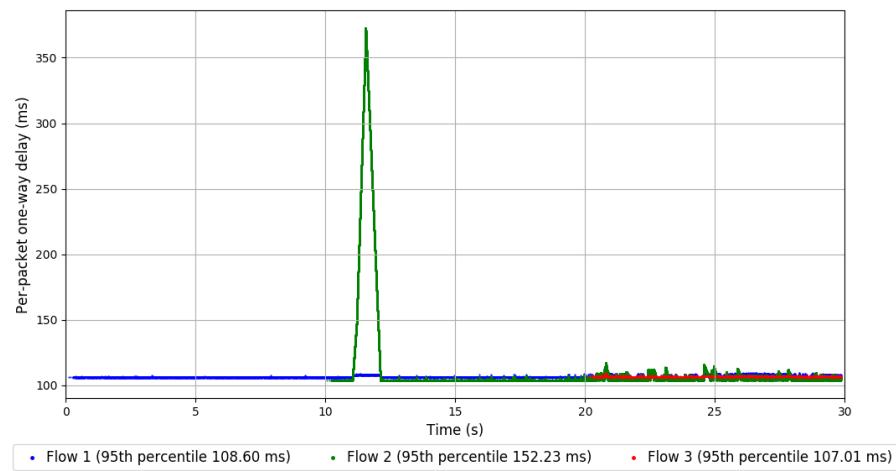
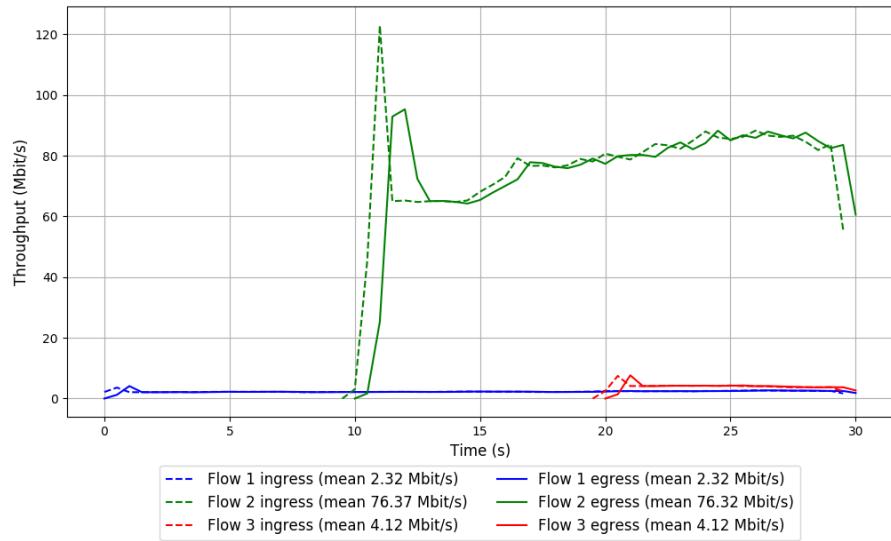


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-12-20 09:10:50
End at: 2018-12-20 09:11:20
Local clock offset: -1.33 ms
Remote clock offset: -36.963 ms

# Below is generated by plot.py at 2018-12-20 10:03:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 137.379 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 108.604 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 76.32 Mbit/s
95th percentile per-packet one-way delay: 152.230 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 107.012 ms
Loss rate: 0.68%
```

Run 4: Report of PCC-Allegro — Data Link

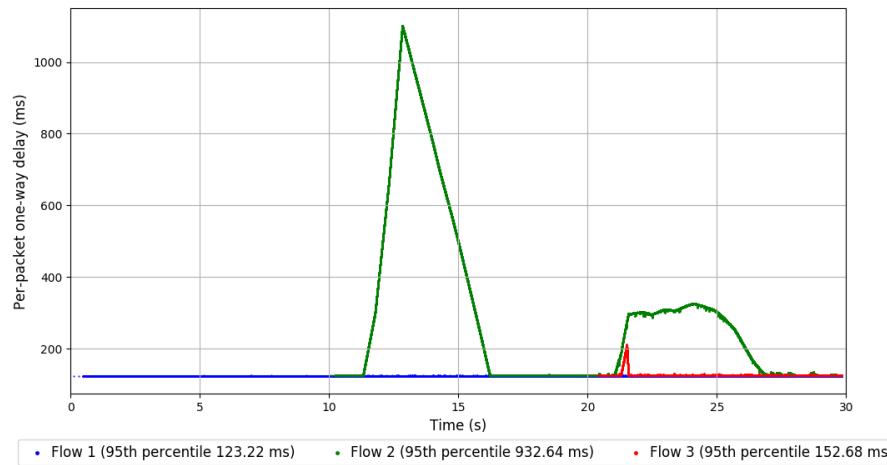
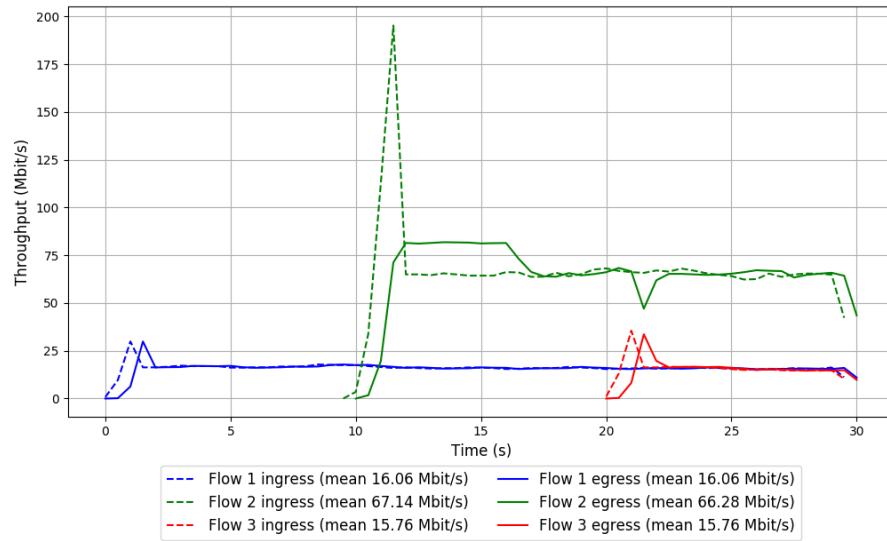


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-12-20 09:35:39
End at: 2018-12-20 09:36:09
Local clock offset: 1.236 ms
Remote clock offset: -49.262 ms

# Below is generated by plot.py at 2018-12-20 10:03:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.33 Mbit/s
95th percentile per-packet one-way delay: 846.305 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 16.06 Mbit/s
95th percentile per-packet one-way delay: 123.223 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 932.645 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 152.684 ms
Loss rate: 1.37%
```

Run 5: Report of PCC-Allegro — Data Link

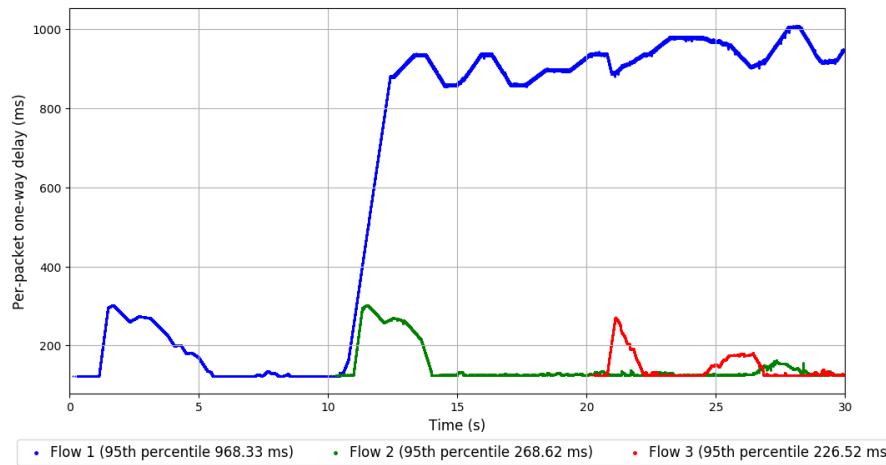
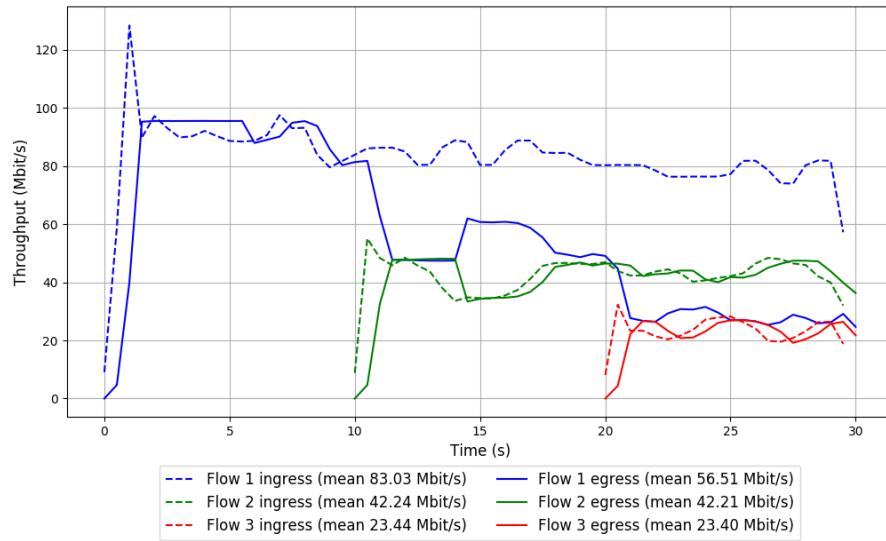


Run 1: Statistics of PCC-Expr

```
Start at: 2018-12-20 08:00:20
End at: 2018-12-20 08:00:50
Local clock offset: 1.373 ms
Remote clock offset: -54.025 ms

# Below is generated by plot.py at 2018-12-20 10:04:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 938.987 ms
Loss rate: 22.62%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 968.331 ms
Loss rate: 32.14%
-- Flow 2:
Average throughput: 42.21 Mbit/s
95th percentile per-packet one-way delay: 268.616 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 226.523 ms
Loss rate: 0.95%
```

Run 1: Report of PCC-Expr — Data Link

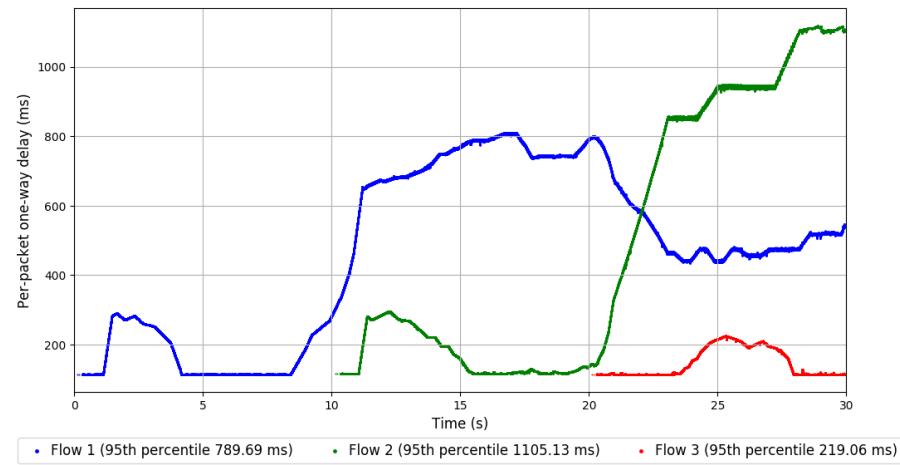
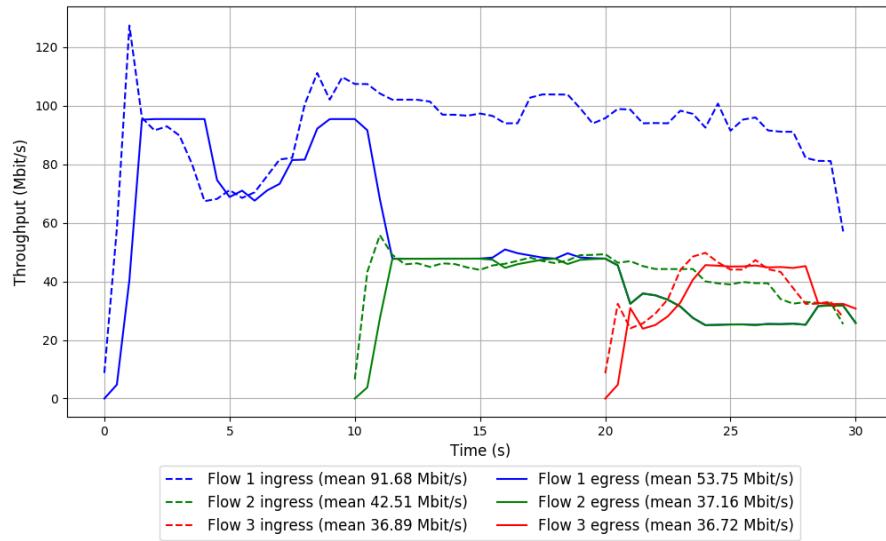


Run 2: Statistics of PCC-Expr

```
Start at: 2018-12-20 08:24:57
End at: 2018-12-20 08:25:27
Local clock offset: -1.439 ms
Remote clock offset: -47.745 ms

# Below is generated by plot.py at 2018-12-20 10:05:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 921.933 ms
Loss rate: 31.69%
-- Flow 1:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 789.686 ms
Loss rate: 41.54%
-- Flow 2:
Average throughput: 37.16 Mbit/s
95th percentile per-packet one-way delay: 1105.126 ms
Loss rate: 12.91%
-- Flow 3:
Average throughput: 36.72 Mbit/s
95th percentile per-packet one-way delay: 219.063 ms
Loss rate: 1.14%
```

Run 2: Report of PCC-Expr — Data Link

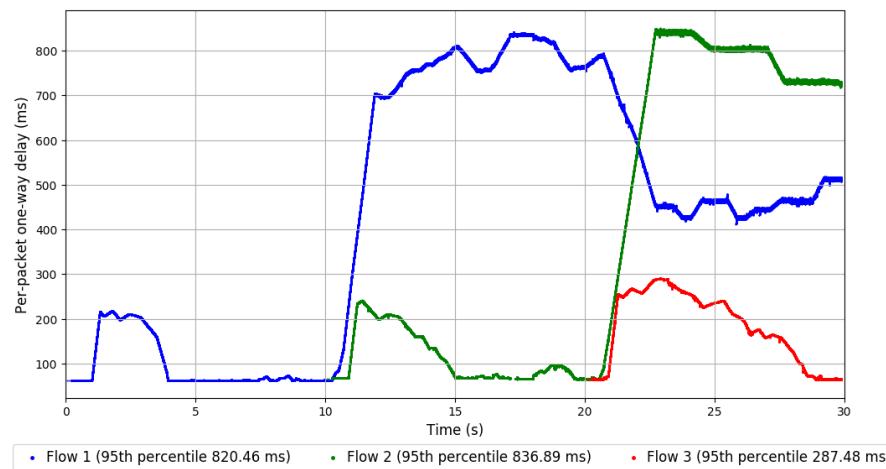
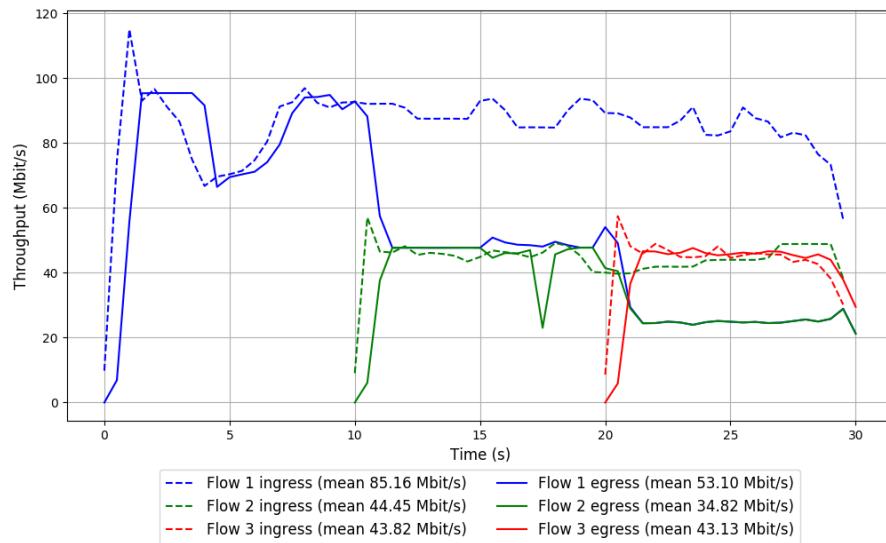


Run 3: Statistics of PCC-Expr

```
Start at: 2018-12-20 08:49:01
End at: 2018-12-20 08:49:31
Local clock offset: -2.193 ms
Remote clock offset: -1.055 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 816.966 ms
Loss rate: 30.20%
-- Flow 1:
Average throughput: 53.10 Mbit/s
95th percentile per-packet one-way delay: 820.463 ms
Loss rate: 37.80%
-- Flow 2:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 836.895 ms
Loss rate: 21.96%
-- Flow 3:
Average throughput: 43.13 Mbit/s
95th percentile per-packet one-way delay: 287.478 ms
Loss rate: 2.31%
```

Run 3: Report of PCC-Expr — Data Link

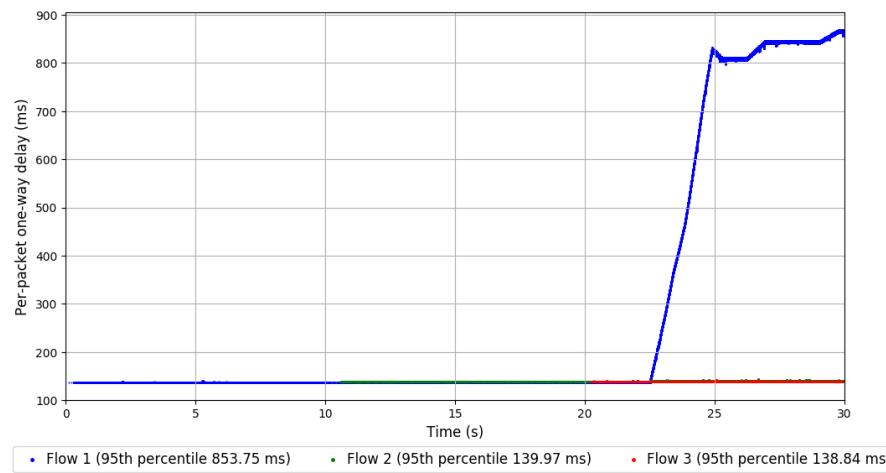
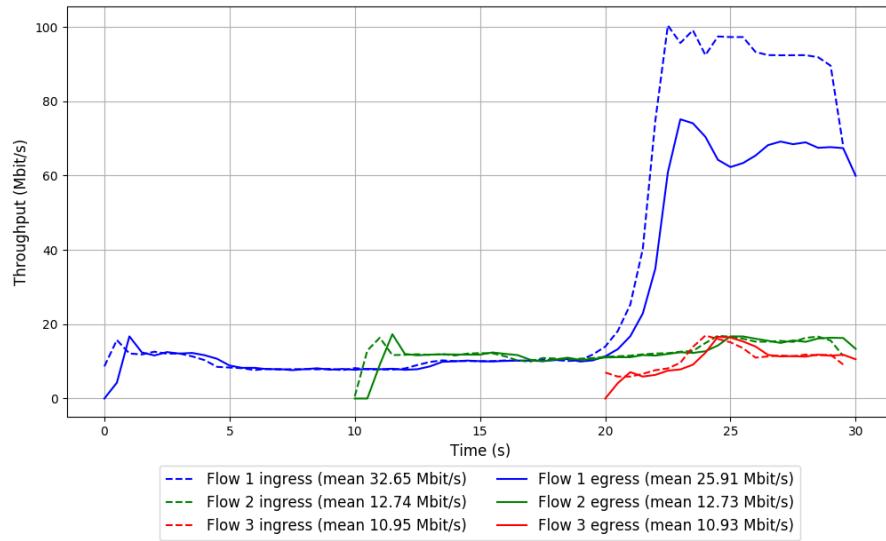


Run 4: Statistics of PCC-Expr

```
Start at: 2018-12-20 09:14:44
End at: 2018-12-20 09:15:14
Local clock offset: -1.817 ms
Remote clock offset: -69.119 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 846.243 ms
Loss rate: 15.38%
-- Flow 1:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 853.753 ms
Loss rate: 20.84%
-- Flow 2:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 139.965 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 138.845 ms
Loss rate: 0.92%
```

Run 4: Report of PCC-Expr — Data Link

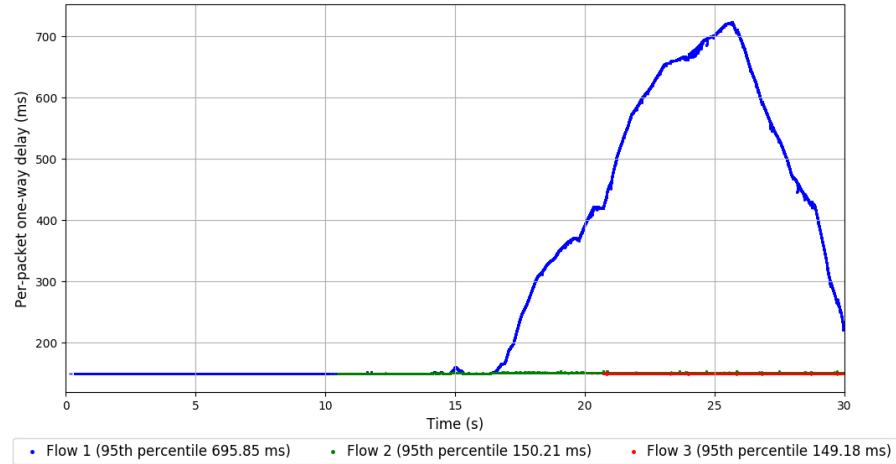
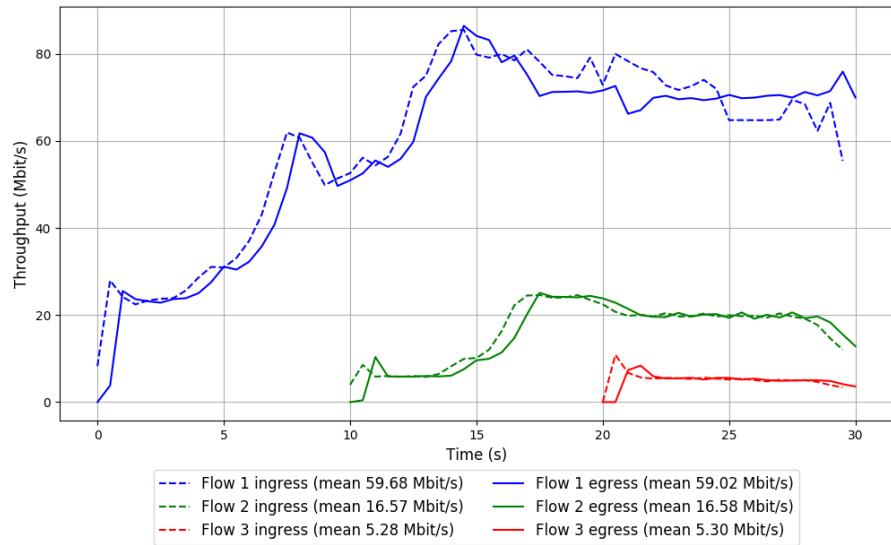


Run 5: Statistics of PCC-Expr

```
Start at: 2018-12-20 09:39:36
End at: 2018-12-20 09:40:06
Local clock offset: -0.228 ms
Remote clock offset: -75.644 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.72 Mbit/s
95th percentile per-packet one-way delay: 688.675 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 59.02 Mbit/s
95th percentile per-packet one-way delay: 695.851 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 16.58 Mbit/s
95th percentile per-packet one-way delay: 150.210 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 149.184 ms
Loss rate: 0.88%
```

Run 5: Report of PCC-Expr — Data Link

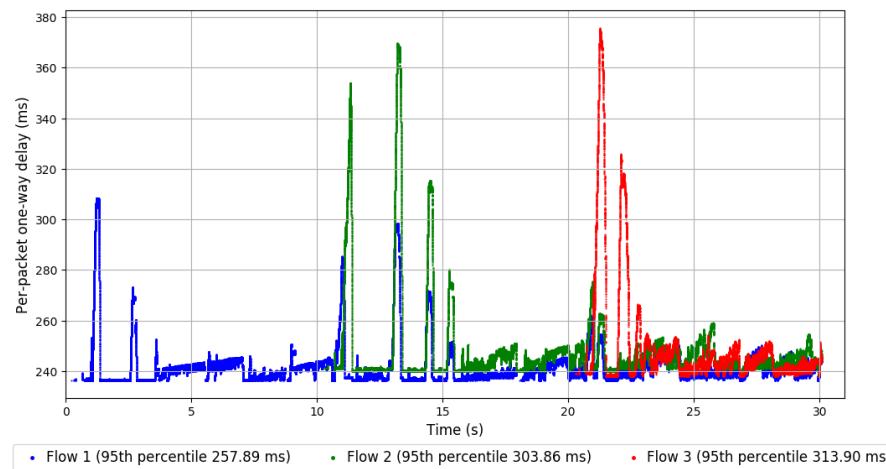
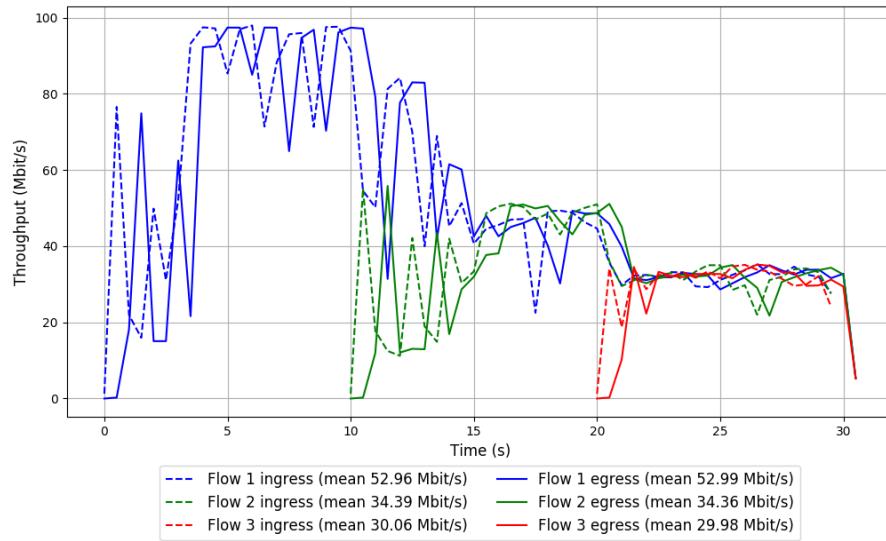


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 08:14:49
End at: 2018-12-20 08:15:19
Local clock offset: 0.835 ms
Remote clock offset: -169.19 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 272.318 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 257.894 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 303.858 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 313.897 ms
Loss rate: 1.01%
```

Run 1: Report of QUIC Cubic — Data Link

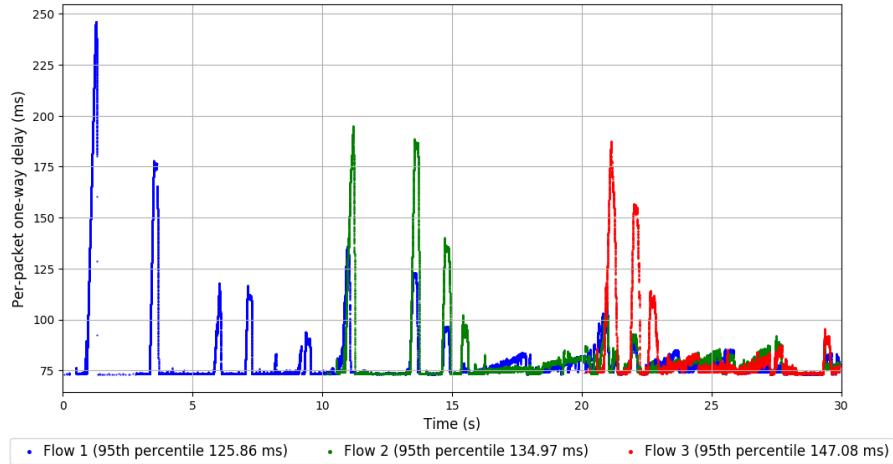
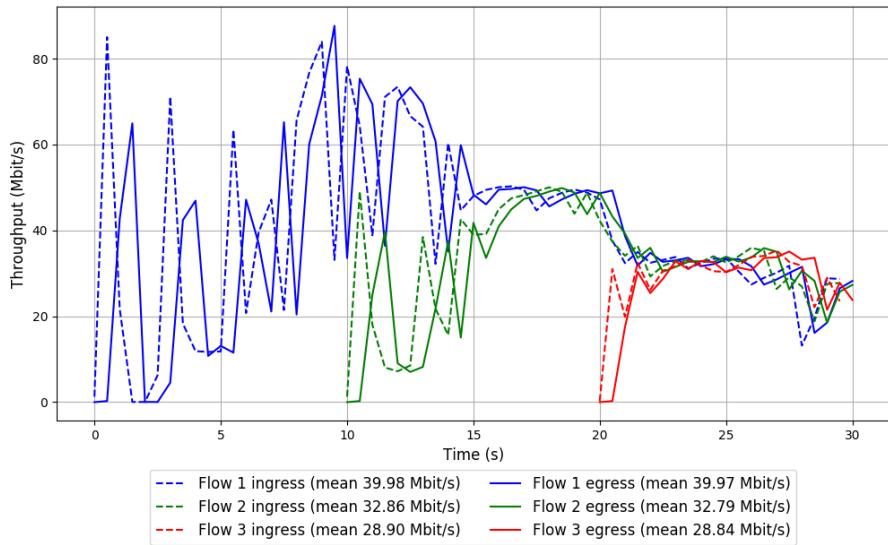


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-12-20 08:39:09
End at: 2018-12-20 08:39:39
Local clock offset: 0.708 ms
Remote clock offset: -1.134 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.24 Mbit/s
95th percentile per-packet one-way delay: 133.805 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 125.861 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 134.970 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 147.076 ms
Loss rate: 1.00%
```

Run 2: Report of QUIC Cubic — Data Link

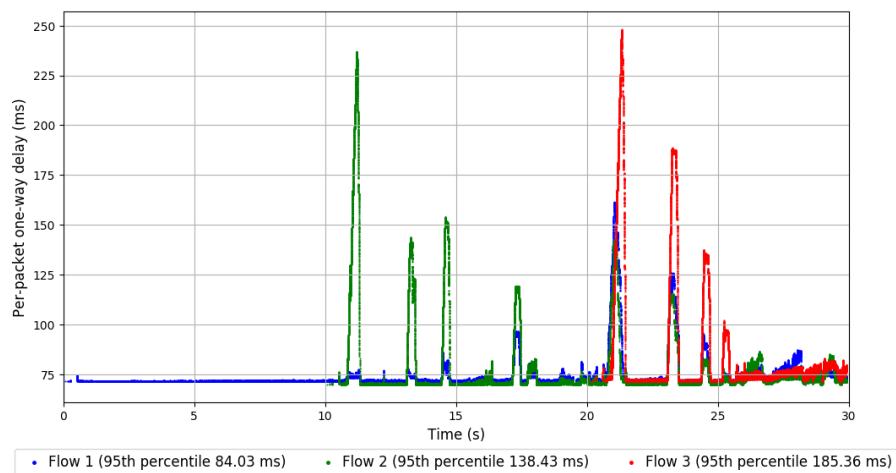
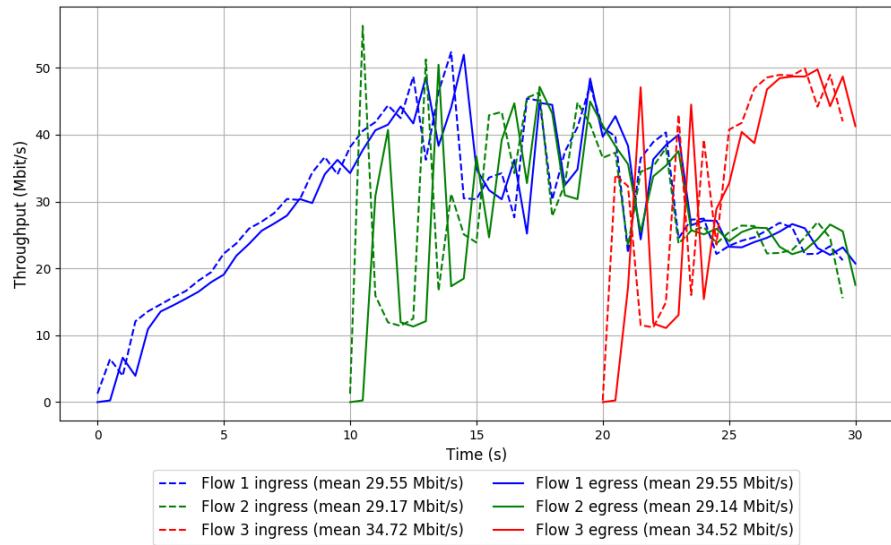


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-12-20 09:04:22
End at: 2018-12-20 09:04:52
Local clock offset: 1.651 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: 126.661 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 84.030 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 138.434 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 185.356 ms
Loss rate: 1.34%
```

Run 3: Report of QUIC Cubic — Data Link

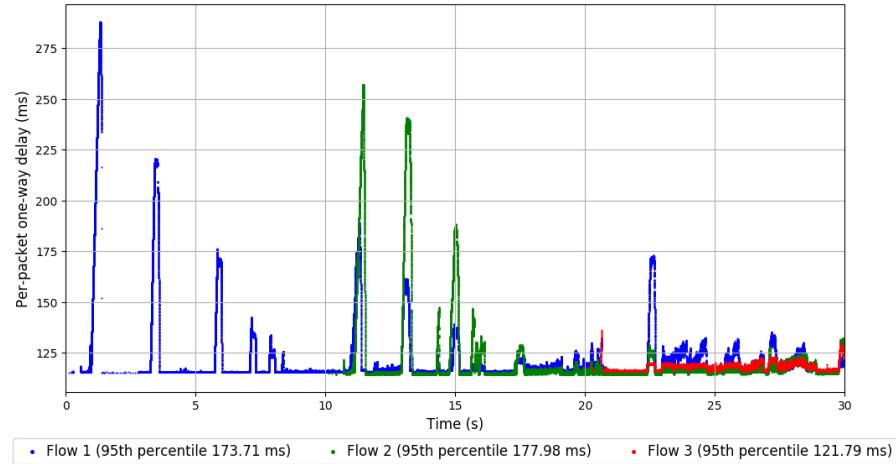
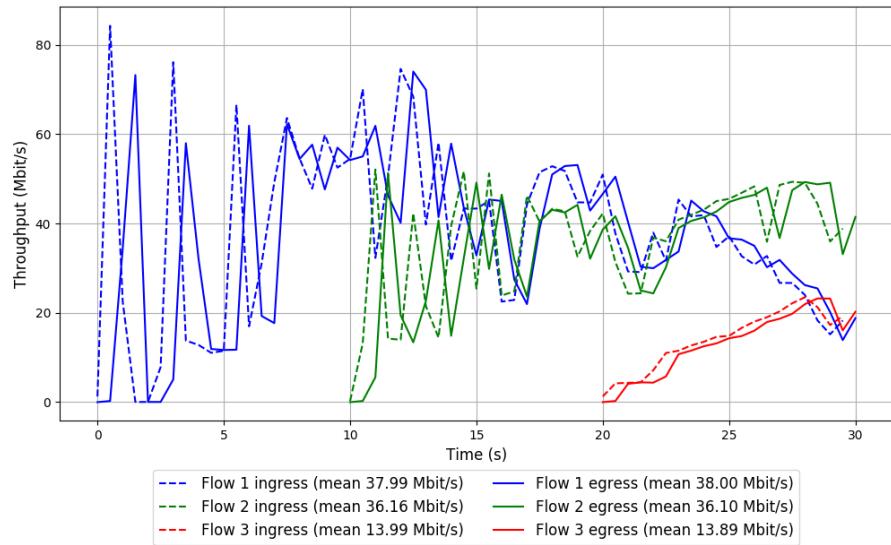


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-12-20 09:28:51
End at: 2018-12-20 09:29:21
Local clock offset: 0.716 ms
Remote clock offset: -43.162 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.57 Mbit/s
95th percentile per-packet one-way delay: 171.681 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 173.706 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 36.10 Mbit/s
95th percentile per-packet one-way delay: 177.978 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 121.786 ms
Loss rate: 1.45%
```

Run 4: Report of QUIC Cubic — Data Link

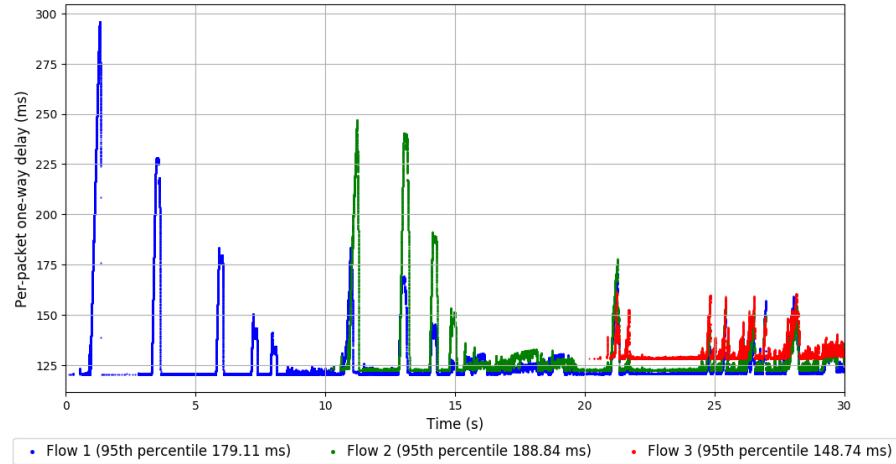
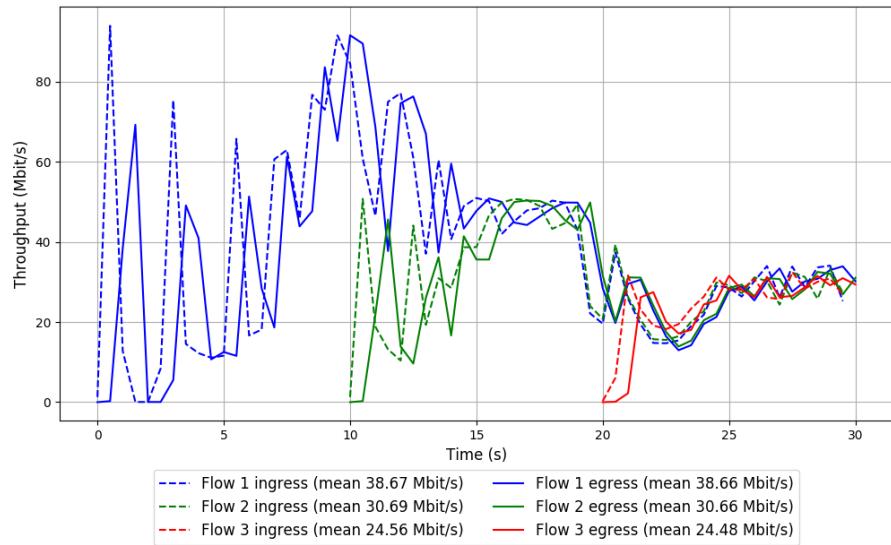


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-12-20 09:54:52
End at: 2018-12-20 09:55:22
Local clock offset: -0.089 ms
Remote clock offset: -47.048 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.09 Mbit/s
95th percentile per-packet one-way delay: 178.782 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 179.114 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 188.842 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 148.742 ms
Loss rate: 1.12%
```

Run 5: Report of QUIC Cubic — Data Link

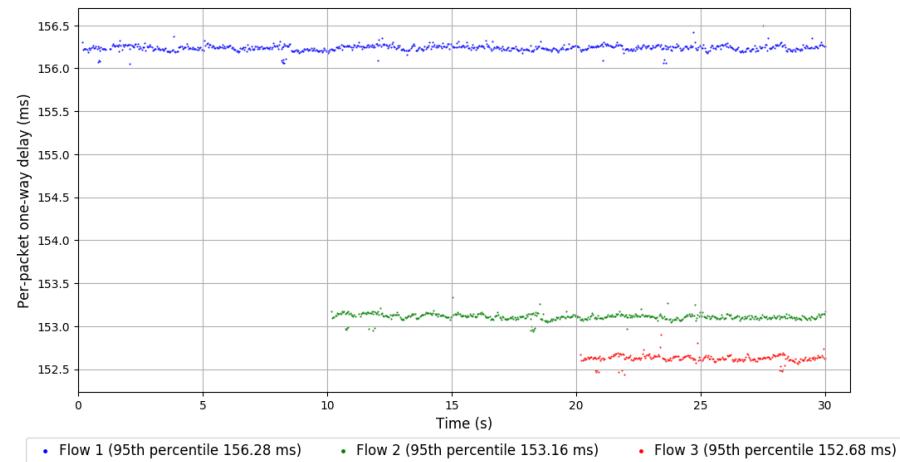
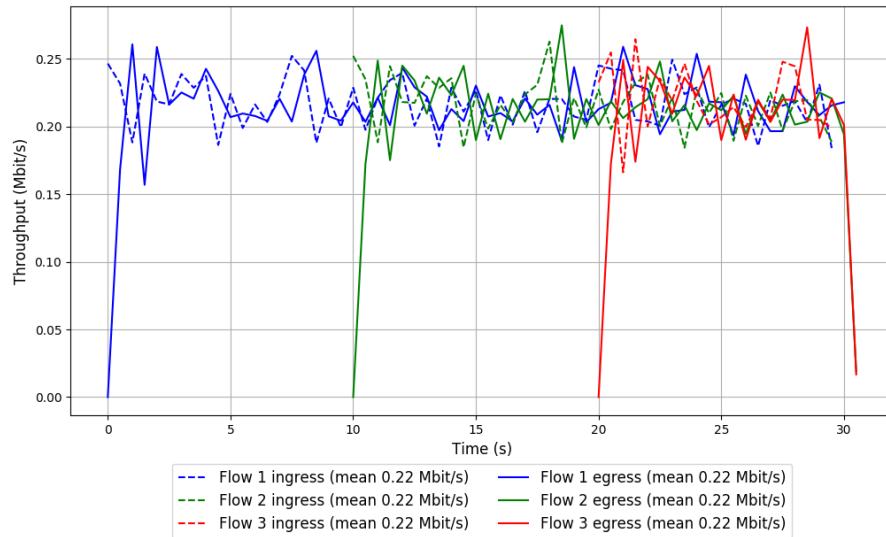


Run 1: Statistics of SCReAM

```
Start at: 2018-12-20 08:13:39
End at: 2018-12-20 08:14:09
Local clock offset: -0.172 ms
Remote clock offset: -86.327 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 156.274 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 156.284 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.161 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.676 ms
Loss rate: 0.70%
```

Run 1: Report of SCReAM — Data Link

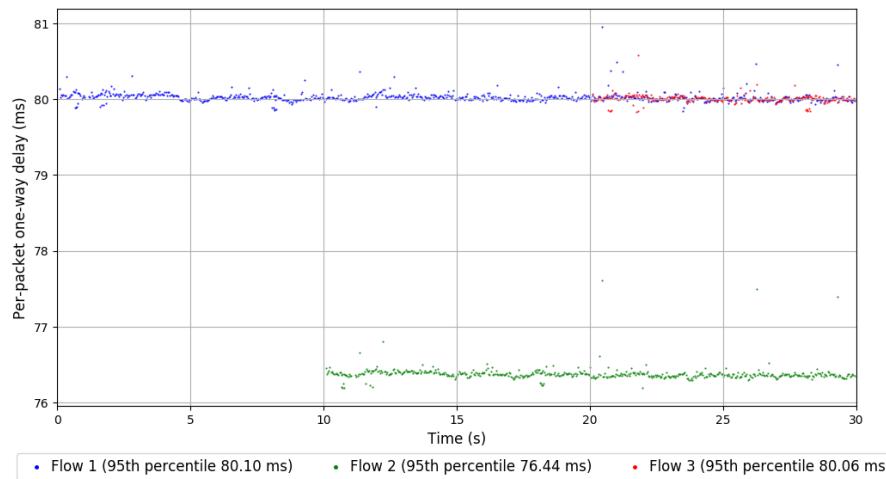
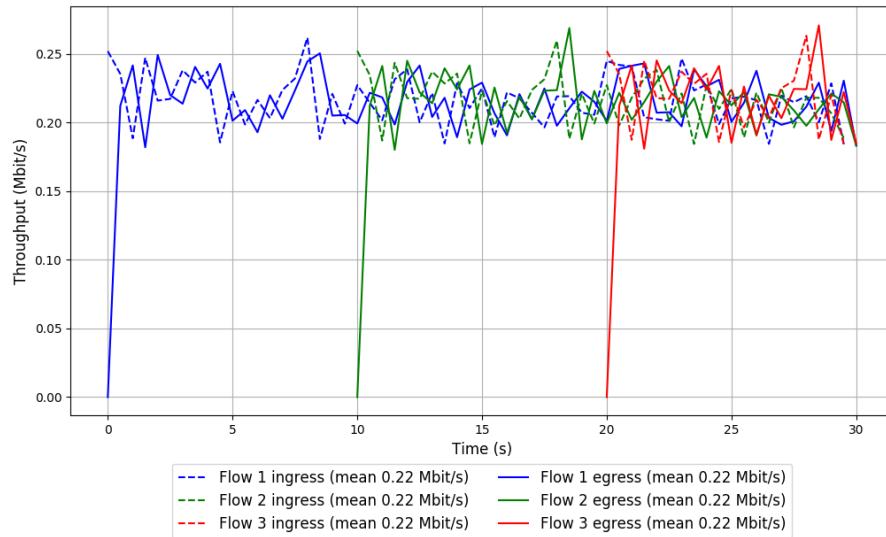


Run 2: Statistics of SCReAM

```
Start at: 2018-12-20 08:38:00
End at: 2018-12-20 08:38:30
Local clock offset: 0.922 ms
Remote clock offset: -7.513 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.078 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.100 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.445 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.055 ms
Loss rate: 0.71%
```

Run 2: Report of SCReAM — Data Link

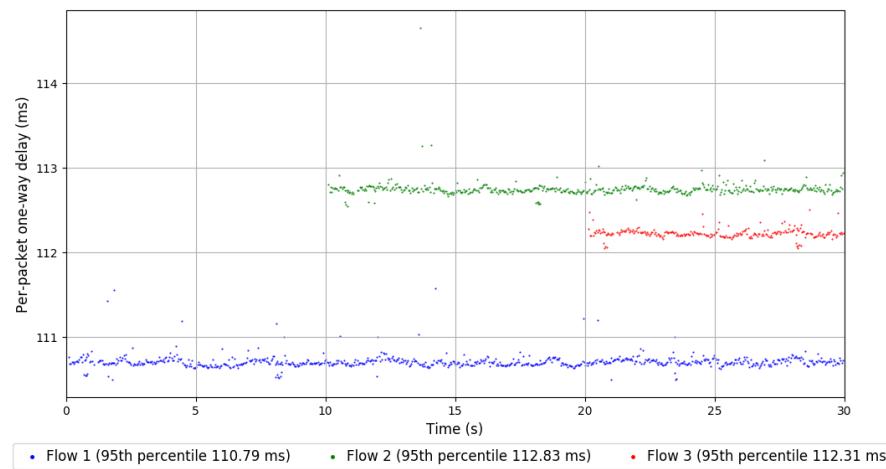
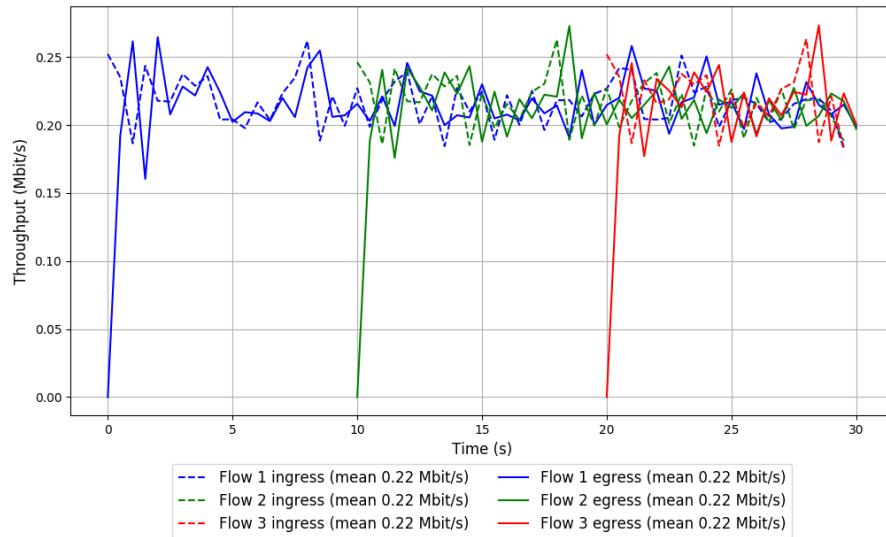


Run 3: Statistics of SCReAM

```
Start at: 2018-12-20 09:03:13
End at: 2018-12-20 09:03:43
Local clock offset: -0.888 ms
Remote clock offset: -43.019 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.778 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.786 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.826 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.308 ms
Loss rate: 0.71%
```

Run 3: Report of SCReAM — Data Link

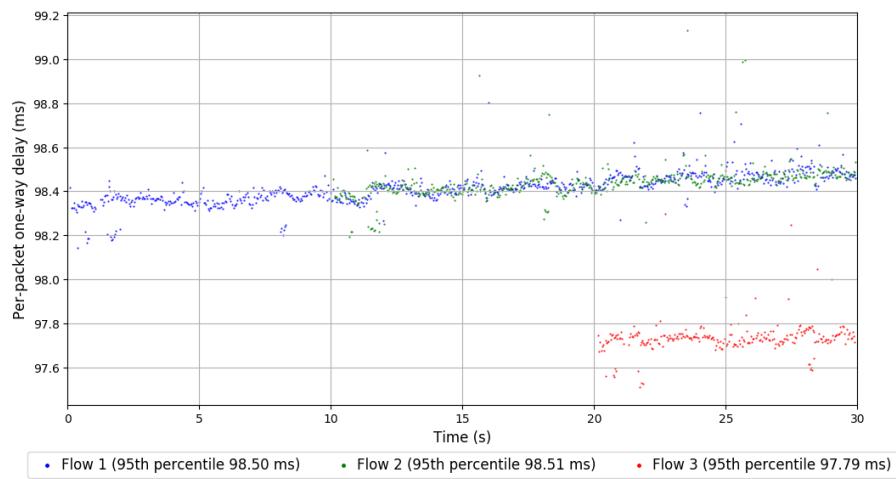
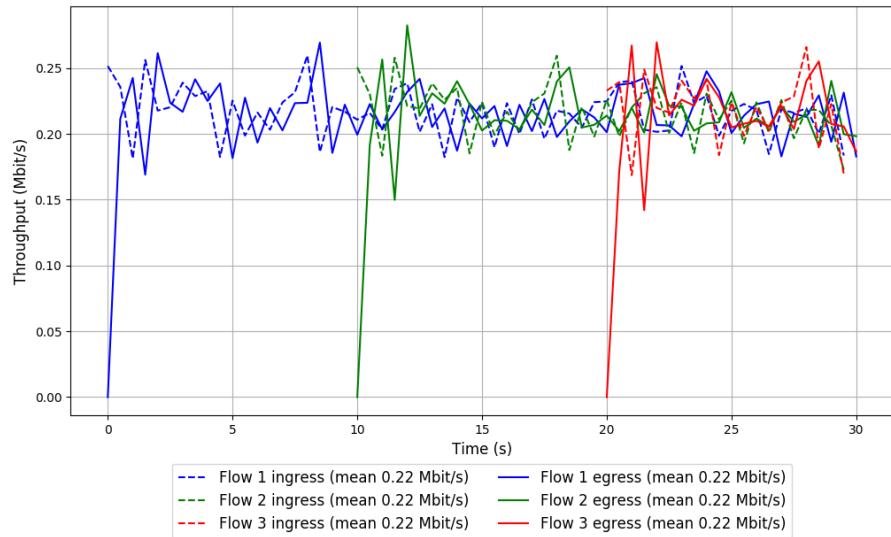


Run 4: Statistics of SCReAM

```
Start at: 2018-12-20 09:27:42
End at: 2018-12-20 09:28:12
Local clock offset: -2.234 ms
Remote clock offset: -30.787 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 98.500 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.503 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.507 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.793 ms
Loss rate: 0.76%
```

Run 4: Report of SCReAM — Data Link

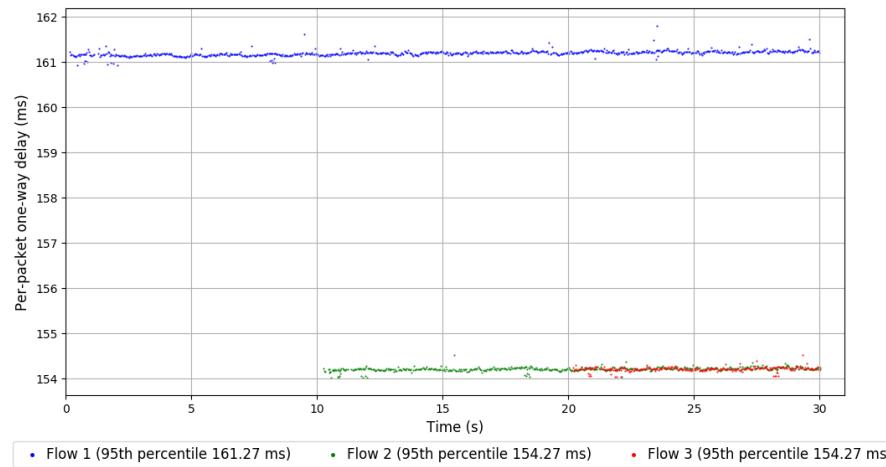
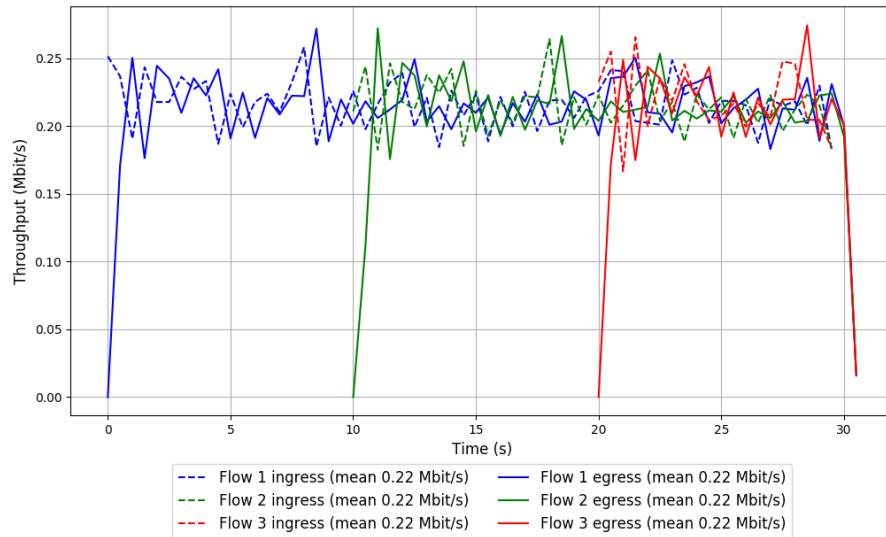


Run 5: Statistics of SCReAM

```
Start at: 2018-12-20 09:53:43
End at: 2018-12-20 09:54:13
Local clock offset: 2.418 ms
Remote clock offset: -77.107 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 161.256 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 161.271 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.268 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.266 ms
Loss rate: 0.35%
```

Run 5: Report of SCReAM — Data Link

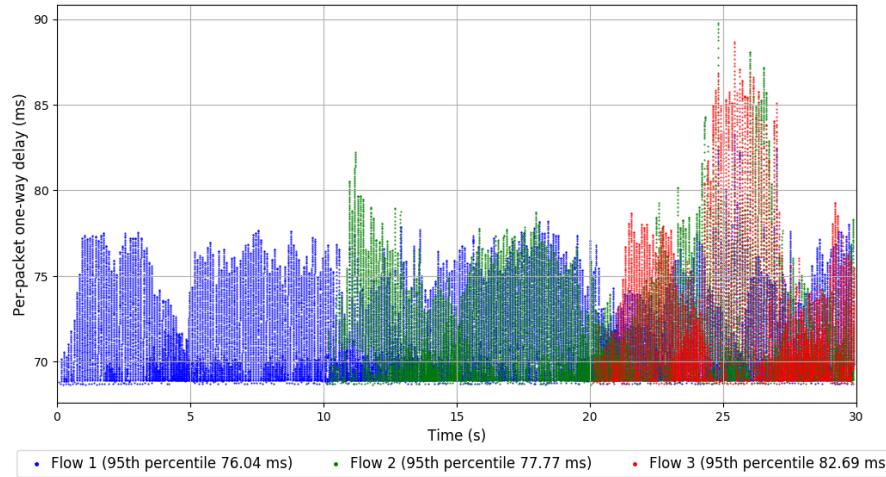
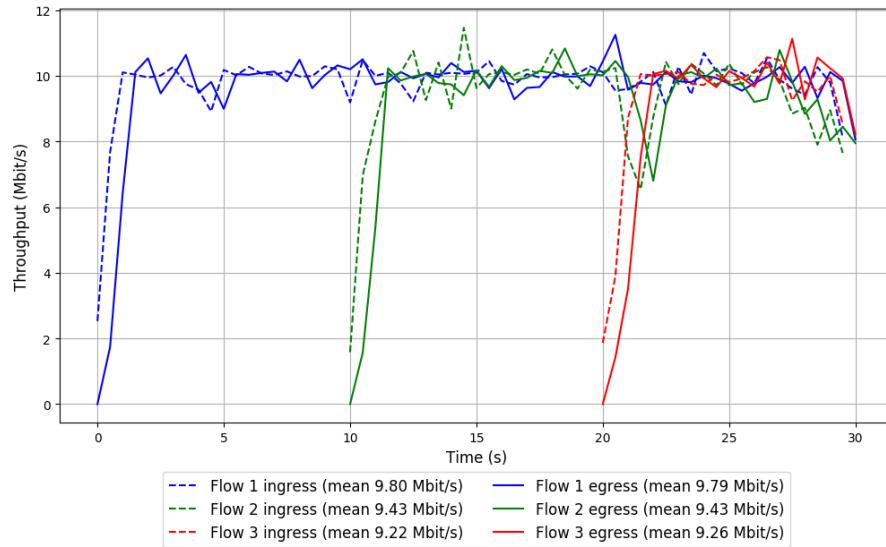


Run 1: Statistics of Sprout

```
Start at: 2018-12-20 07:55:25
End at: 2018-12-20 07:55:55
Local clock offset: -1.06 ms
Remote clock offset: -0.593 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: 77.238 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 76.036 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 77.771 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 9.26 Mbit/s
95th percentile per-packet one-way delay: 82.689 ms
Loss rate: 0.28%
```

Run 1: Report of Sprout — Data Link

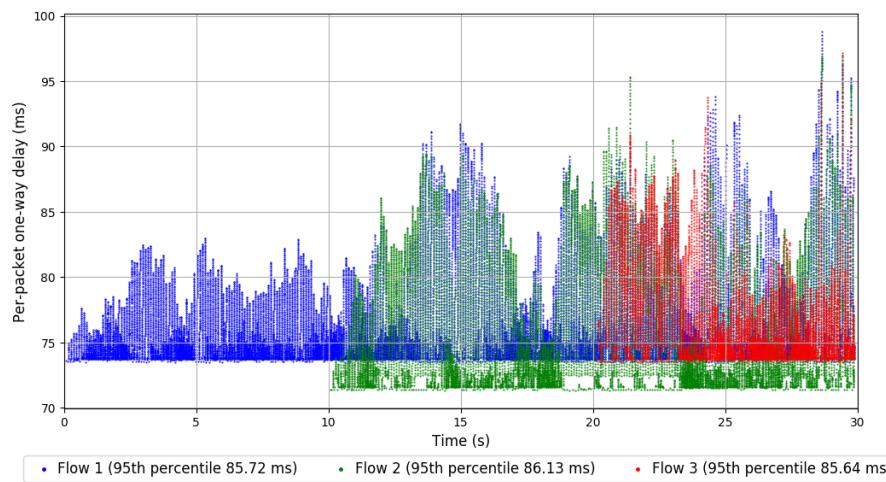
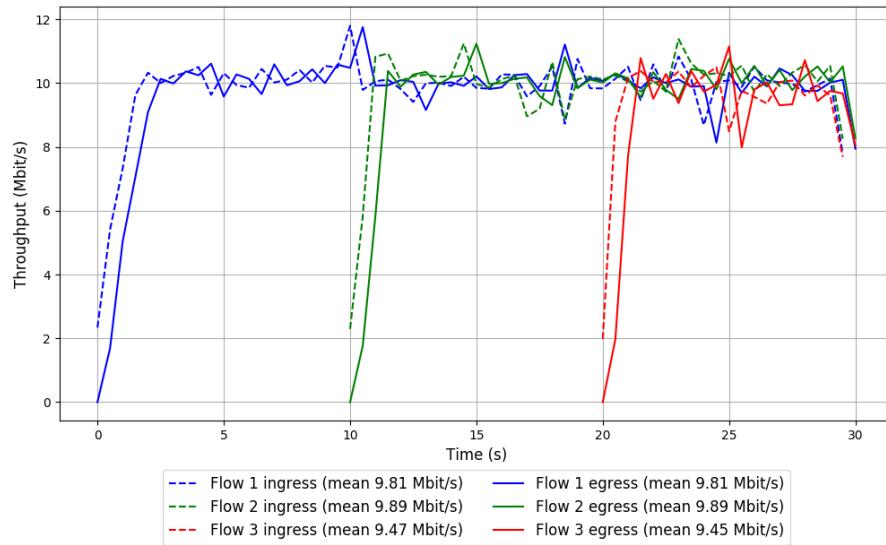


Run 2: Statistics of Sprout

```
Start at: 2018-12-20 08:19:42
End at: 2018-12-20 08:20:12
Local clock offset: 0.433 ms
Remote clock offset: -3.098 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.47 Mbit/s
95th percentile per-packet one-way delay: 85.872 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 85.715 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 86.131 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 85.641 ms
Loss rate: 0.82%
```

Run 2: Report of Sprout — Data Link

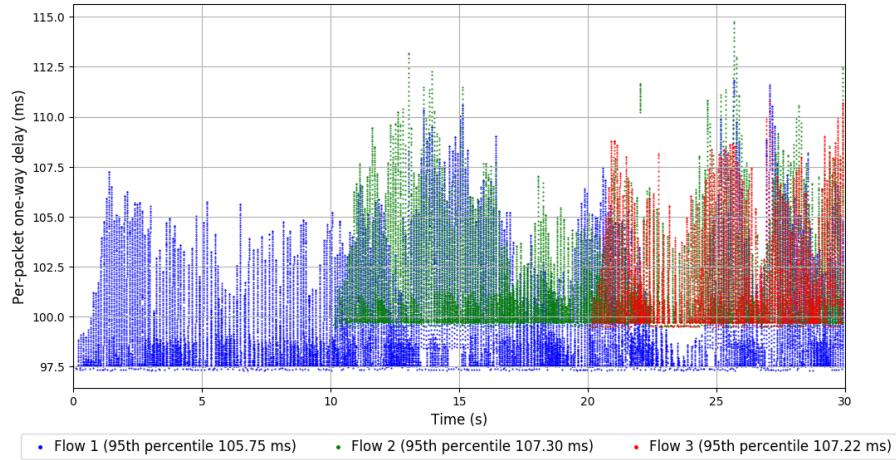
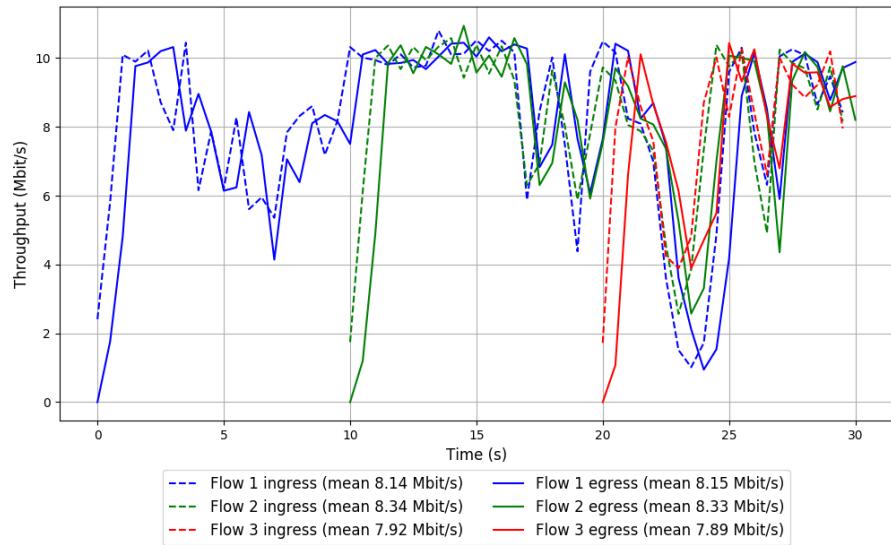


Run 3: Statistics of Sprout

```
Start at: 2018-12-20 08:44:03
End at: 2018-12-20 08:44:33
Local clock offset: -0.267 ms
Remote clock offset: -28.799 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 106.755 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 105.752 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 107.302 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 107.225 ms
Loss rate: 1.27%
```

Run 3: Report of Sprout — Data Link

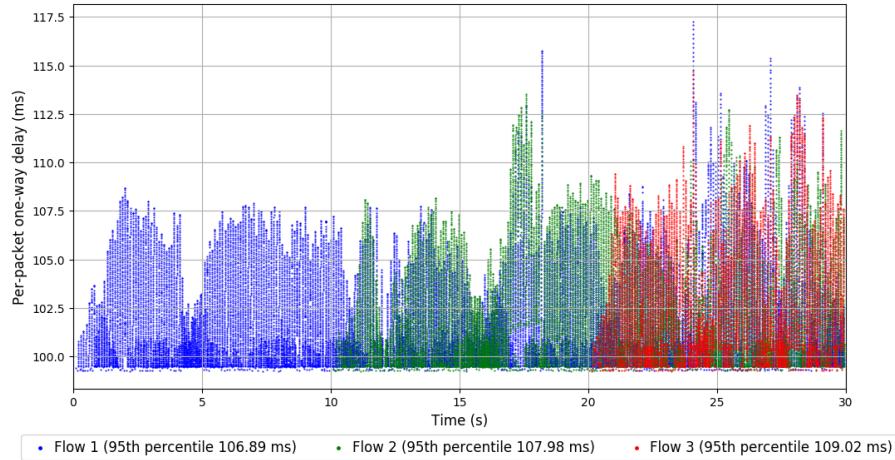
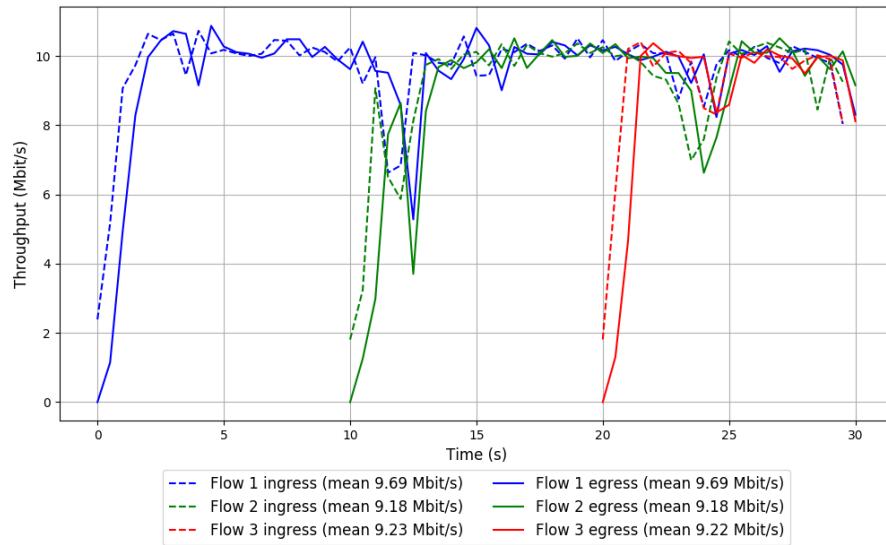


Run 4: Statistics of Sprout

```
Start at: 2018-12-20 09:09:38
End at: 2018-12-20 09:10:08
Local clock offset: -2.528 ms
Remote clock offset: -31.631 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.81 Mbit/s
95th percentile per-packet one-way delay: 107.695 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 106.887 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 107.980 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 109.018 ms
Loss rate: 1.08%
```

Run 4: Report of Sprout — Data Link

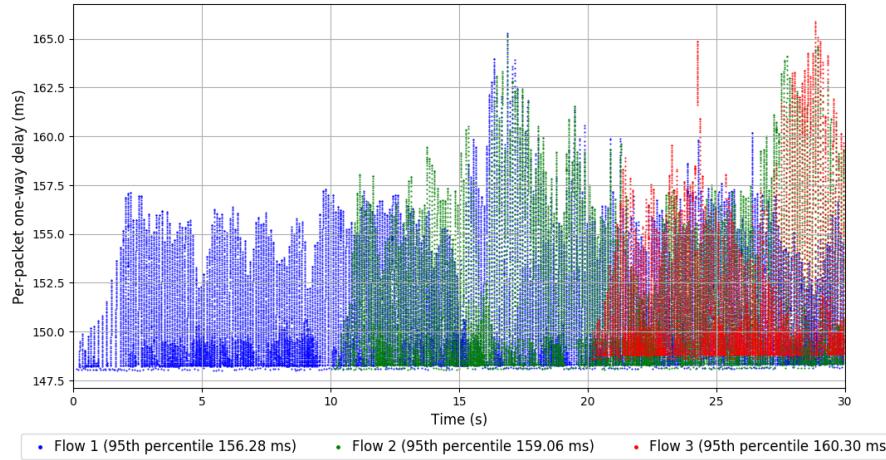
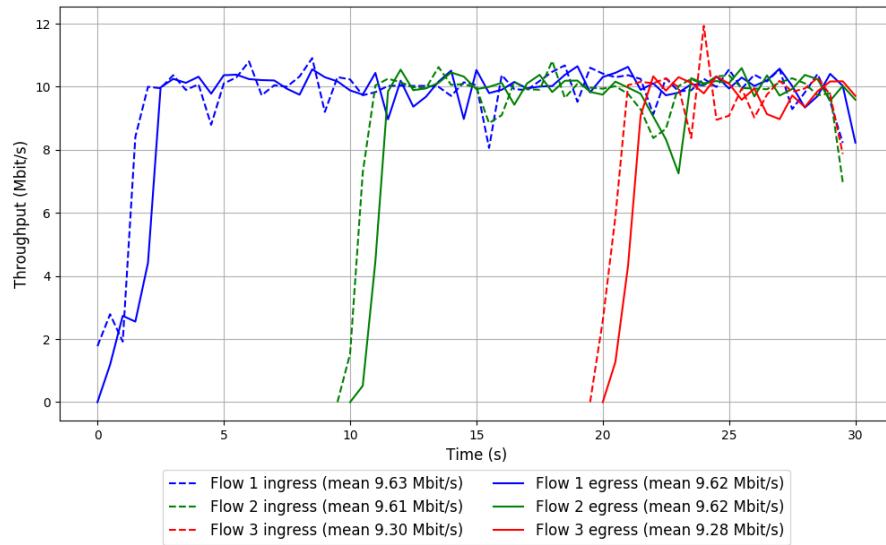


Run 5: Statistics of Sprout

```
Start at: 2018-12-20 09:34:26
End at: 2018-12-20 09:34:56
Local clock offset: 0.858 ms
Remote clock offset: -74.352 ms

# Below is generated by plot.py at 2018-12-20 10:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 158.034 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 156.277 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 159.063 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 160.298 ms
Loss rate: 0.99%
```

Run 5: Report of Sprout — Data Link

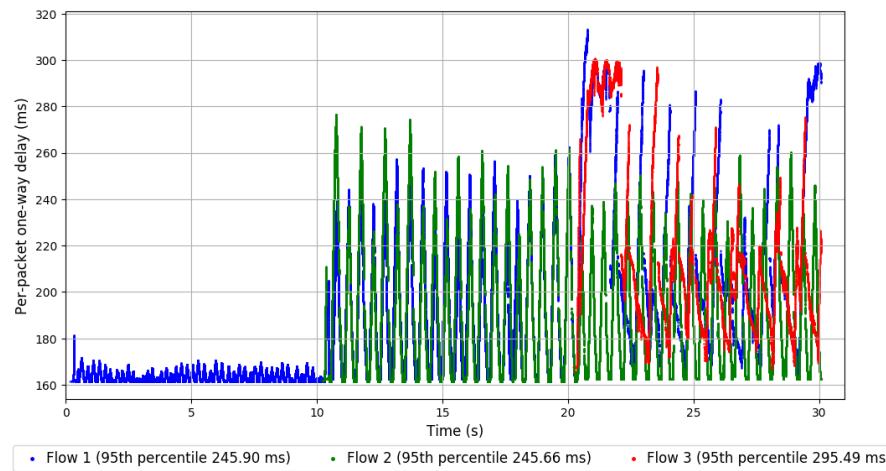
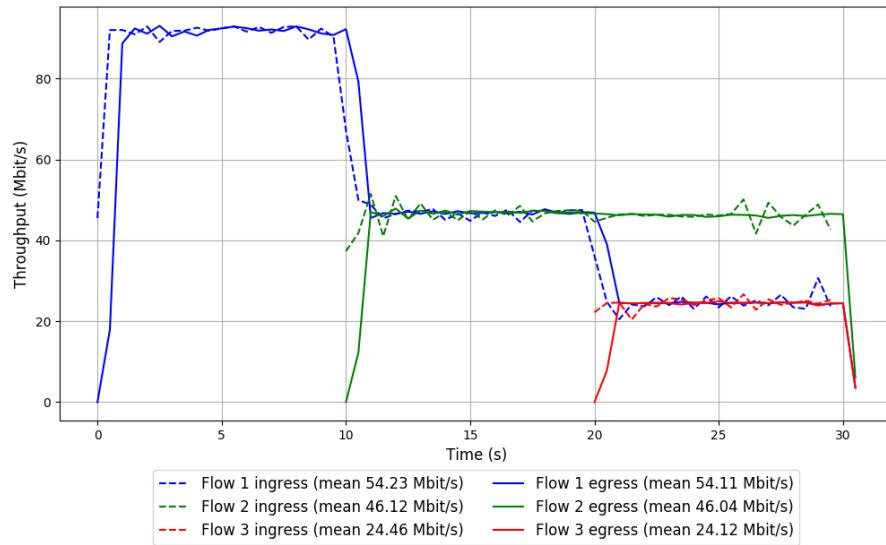


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-12-20 08:01:52
End at: 2018-12-20 08:02:22
Local clock offset: -0.849 ms
Remote clock offset: -96.319 ms

# Below is generated by plot.py at 2018-12-20 10:06:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 252.243 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 245.898 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 245.660 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 295.490 ms
Loss rate: 2.17%
```

Run 1: Report of TaoVA-100x — Data Link

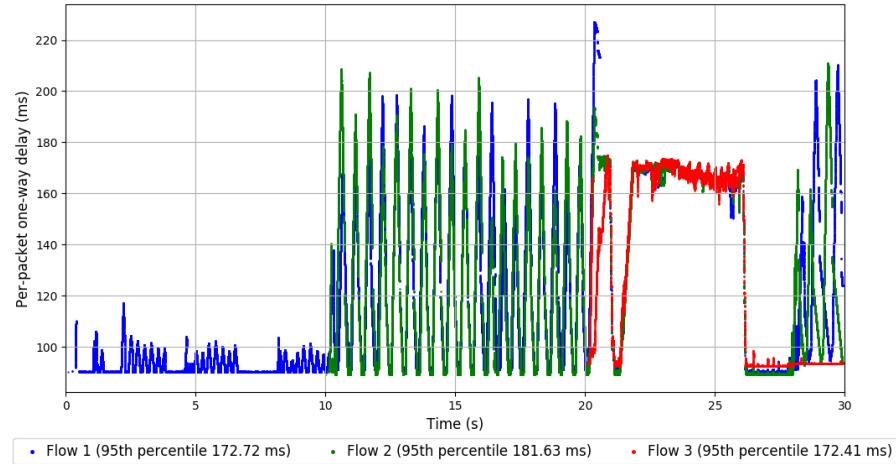
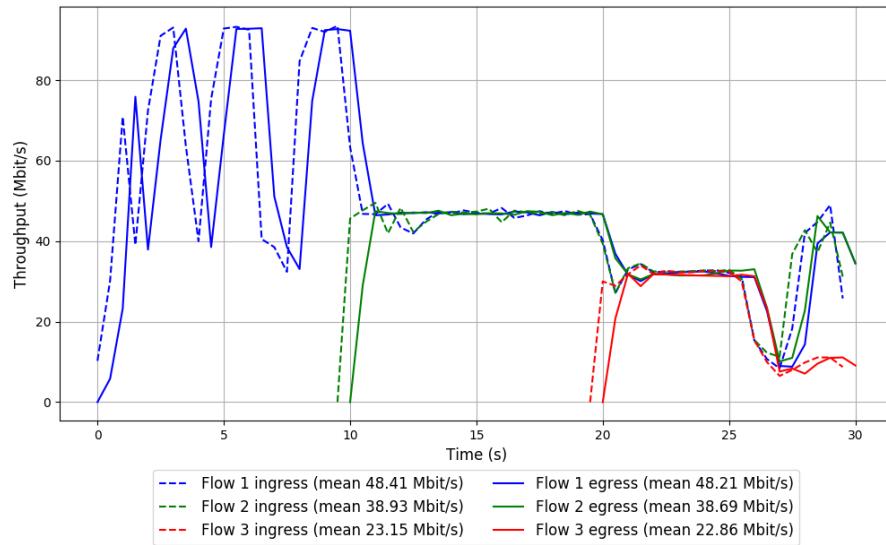


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-12-20 08:26:26
End at: 2018-12-20 08:26:56
Local clock offset: 0.631 ms
Remote clock offset: -21.514 ms

# Below is generated by plot.py at 2018-12-20 10:06:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.61 Mbit/s
95th percentile per-packet one-way delay: 174.185 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 48.21 Mbit/s
95th percentile per-packet one-way delay: 172.721 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 181.627 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 22.86 Mbit/s
95th percentile per-packet one-way delay: 172.410 ms
Loss rate: 2.00%
```

Run 2: Report of TaoVA-100x — Data Link

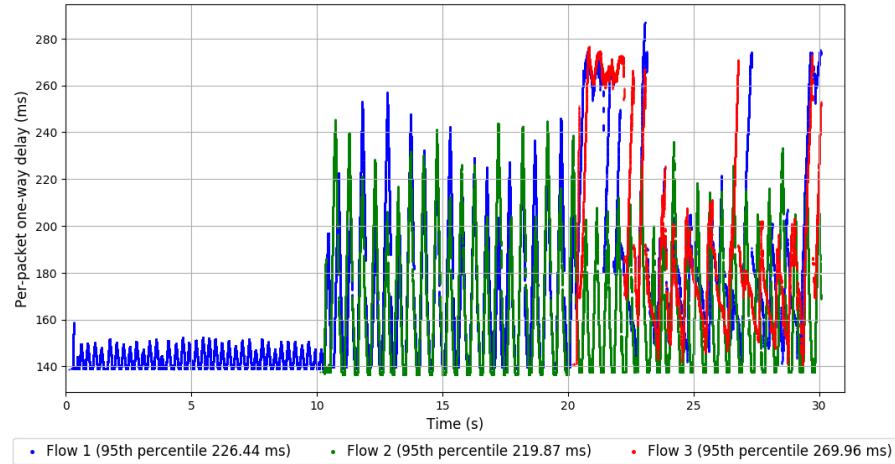
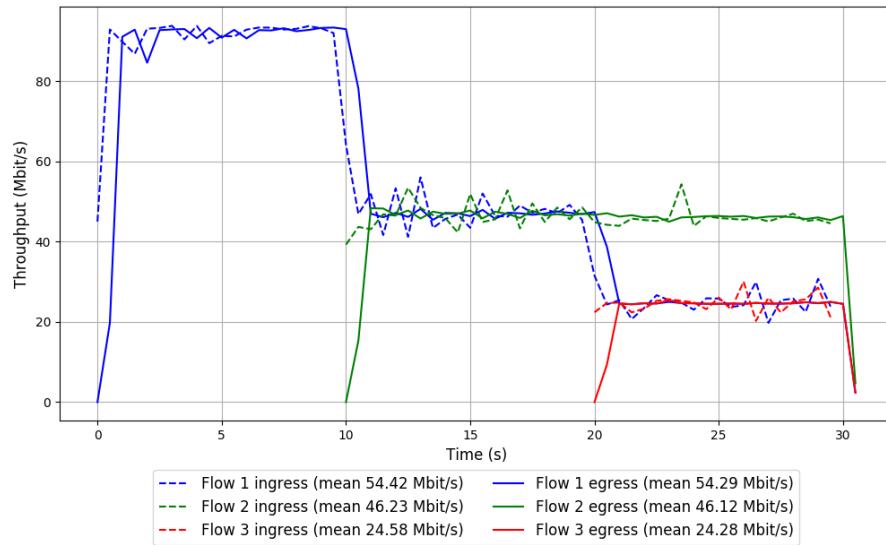


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-12-20 08:50:31
End at: 2018-12-20 08:51:01
Local clock offset: -2.209 ms
Remote clock offset: -73.601 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 231.396 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 54.29 Mbit/s
95th percentile per-packet one-way delay: 226.443 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 219.873 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 269.964 ms
Loss rate: 1.99%
```

Run 3: Report of TaoVA-100x — Data Link

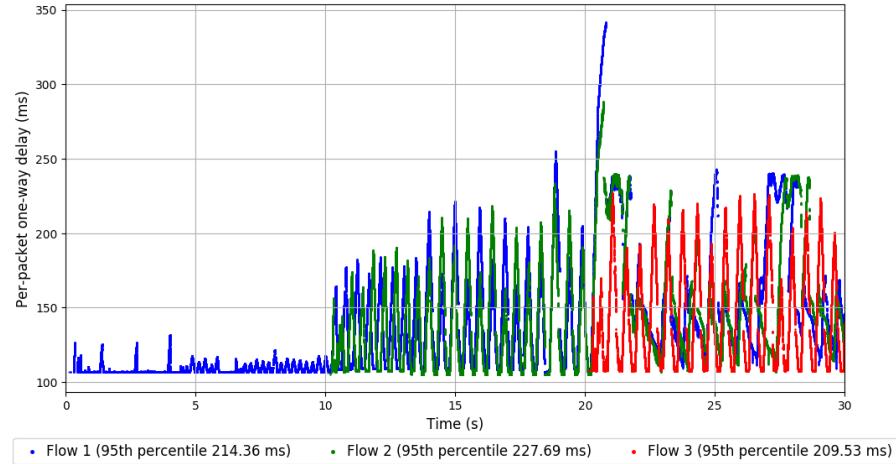
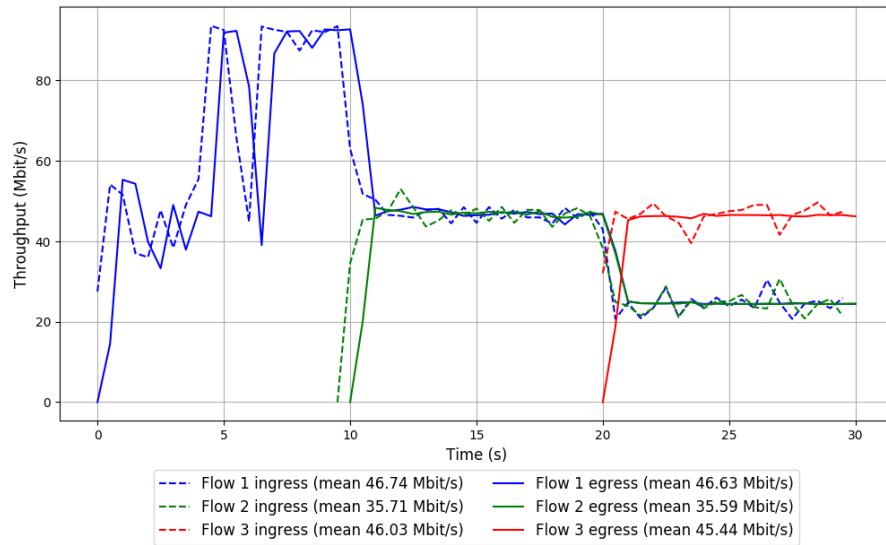


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-12-20 09:16:08
End at: 2018-12-20 09:16:38
Local clock offset: 0.111 ms
Remote clock offset: -36.156 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 216.508 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 214.356 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 35.59 Mbit/s
95th percentile per-packet one-way delay: 227.688 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 209.532 ms
Loss rate: 2.06%
```

Run 4: Report of TaoVA-100x — Data Link

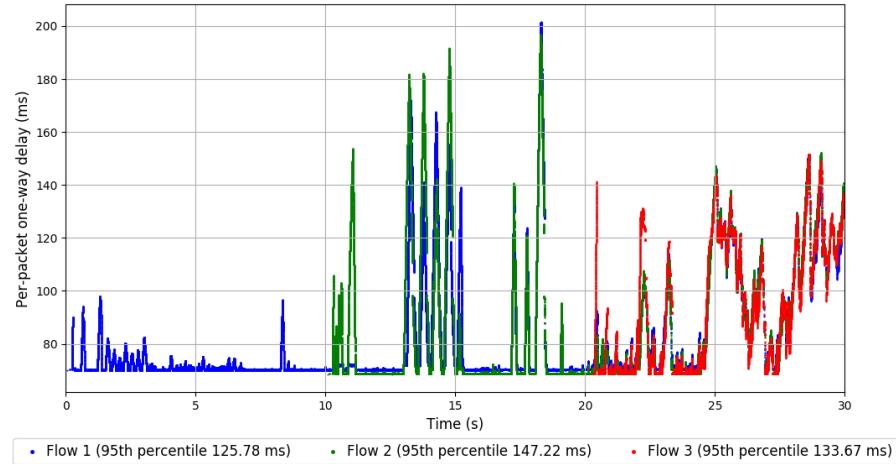
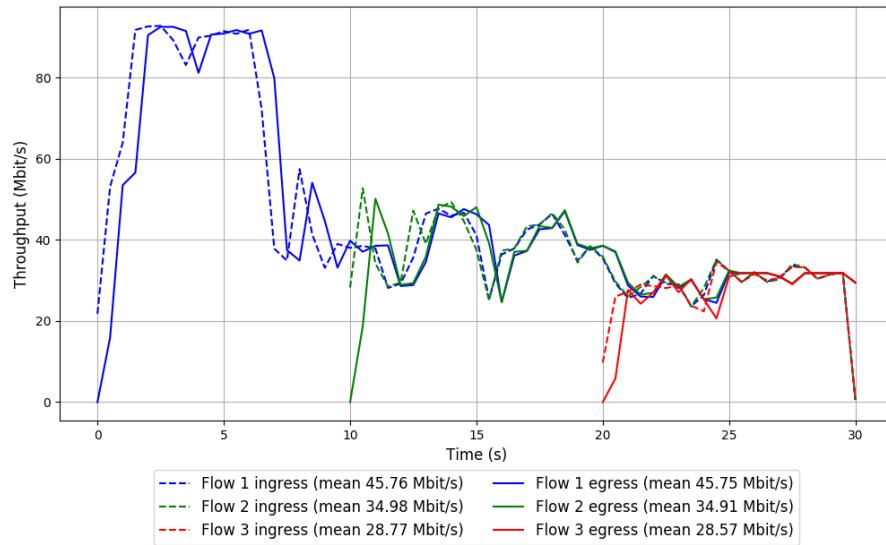


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-12-20 09:41:13
End at: 2018-12-20 09:41:43
Local clock offset: 1.076 ms
Remote clock offset: 4.803 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.38 Mbit/s
95th percentile per-packet one-way delay: 134.777 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 45.75 Mbit/s
95th percentile per-packet one-way delay: 125.775 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 147.218 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 133.668 ms
Loss rate: 1.87%
```

Run 5: Report of TaoVA-100x — Data Link

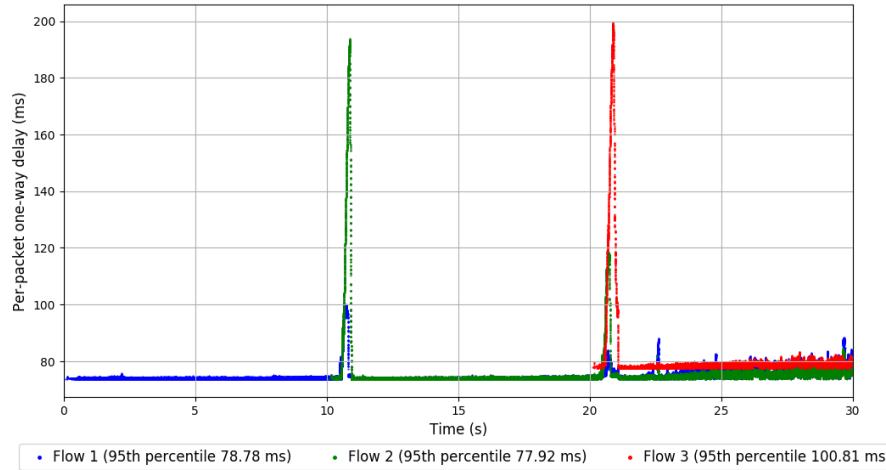
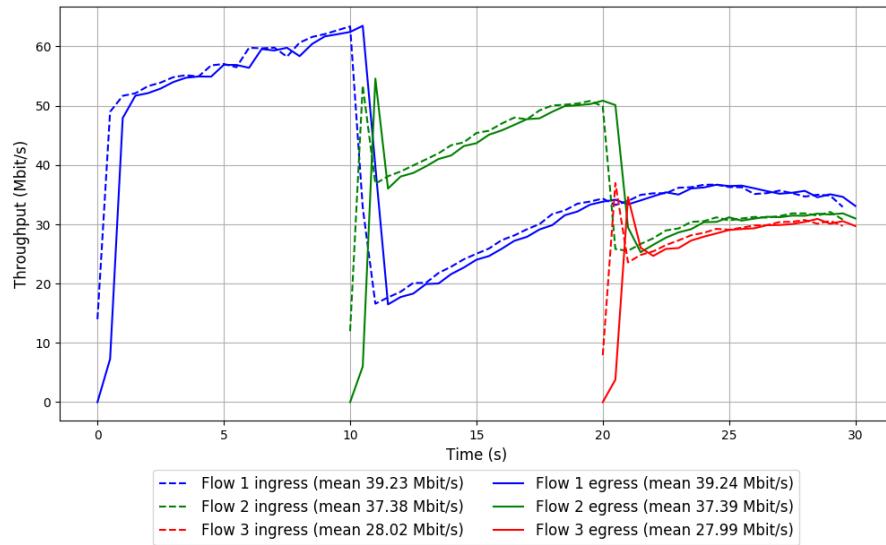


Run 1: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:04:42
End at: 2018-12-20 08:05:12
Local clock offset: -0.669 ms
Remote clock offset: -8.153 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 79.858 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 78.783 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 77.917 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 27.99 Mbit/s
95th percentile per-packet one-way delay: 100.811 ms
Loss rate: 0.89%
```

Run 1: Report of TCP Vegas — Data Link

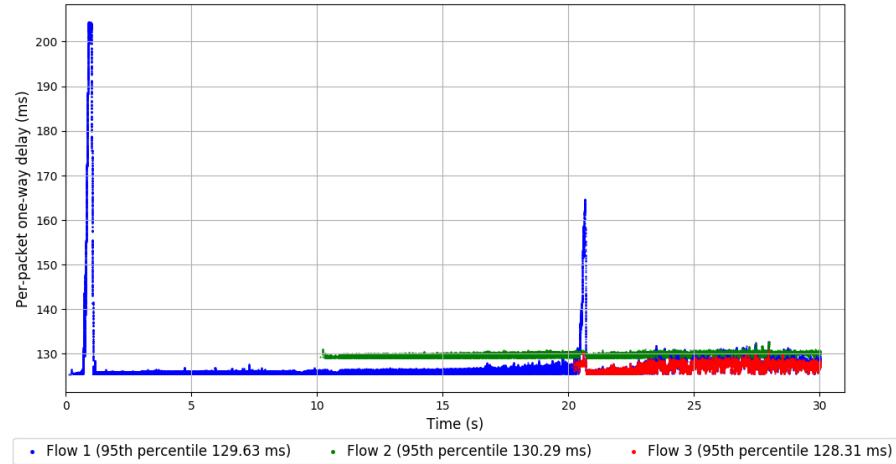
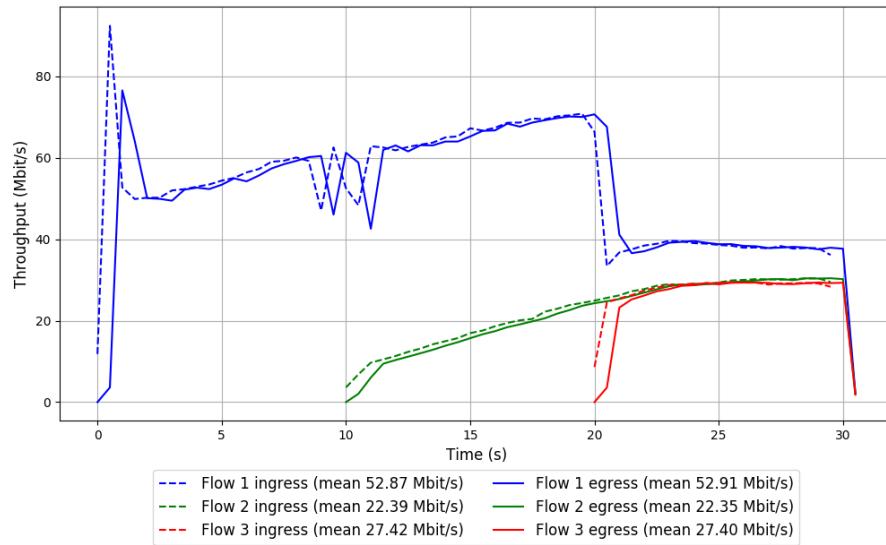


Run 2: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:29:00
End at: 2018-12-20 08:29:30
Local clock offset: 0.784 ms
Remote clock offset: -54.116 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 130.238 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 129.634 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 22.35 Mbit/s
95th percentile per-packet one-way delay: 130.287 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 128.312 ms
Loss rate: 0.84%
```

Run 2: Report of TCP Vegas — Data Link

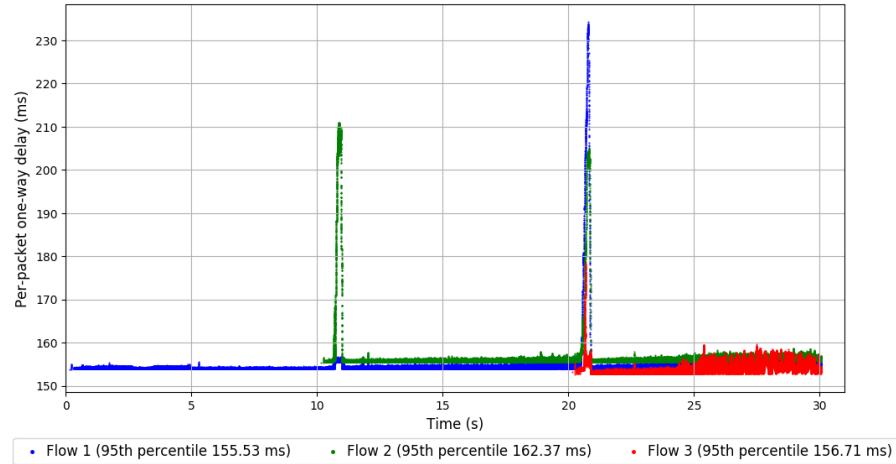
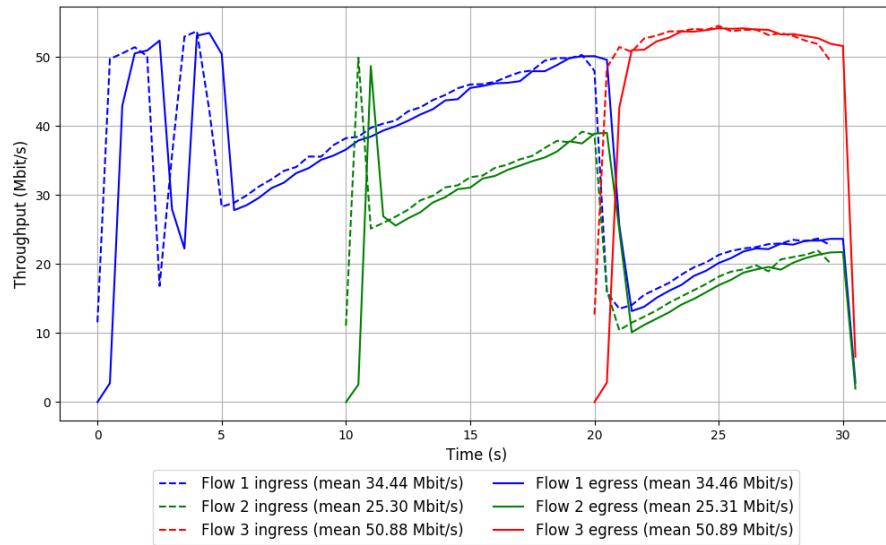


Run 3: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:53:15
End at: 2018-12-20 08:53:45
Local clock offset: -6.725 ms
Remote clock offset: -94.726 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.14 Mbit/s
95th percentile per-packet one-way delay: 156.869 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 155.529 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 162.372 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 50.89 Mbit/s
95th percentile per-packet one-way delay: 156.708 ms
Loss rate: 0.73%
```

Run 3: Report of TCP Vegas — Data Link

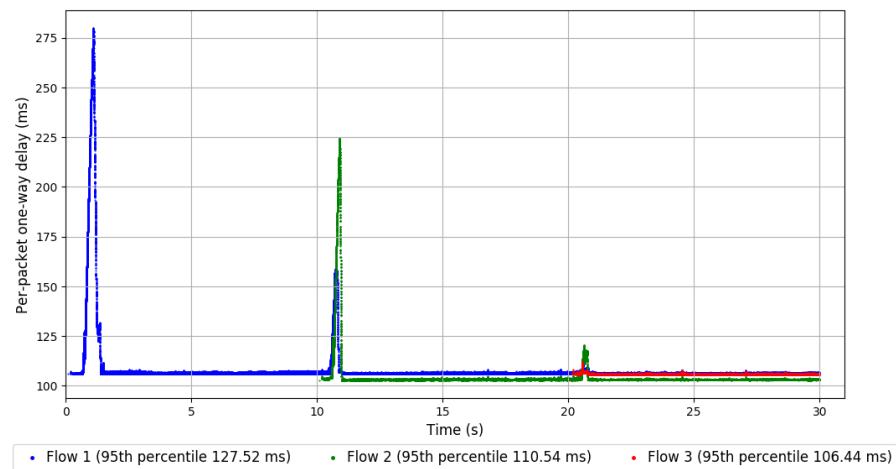
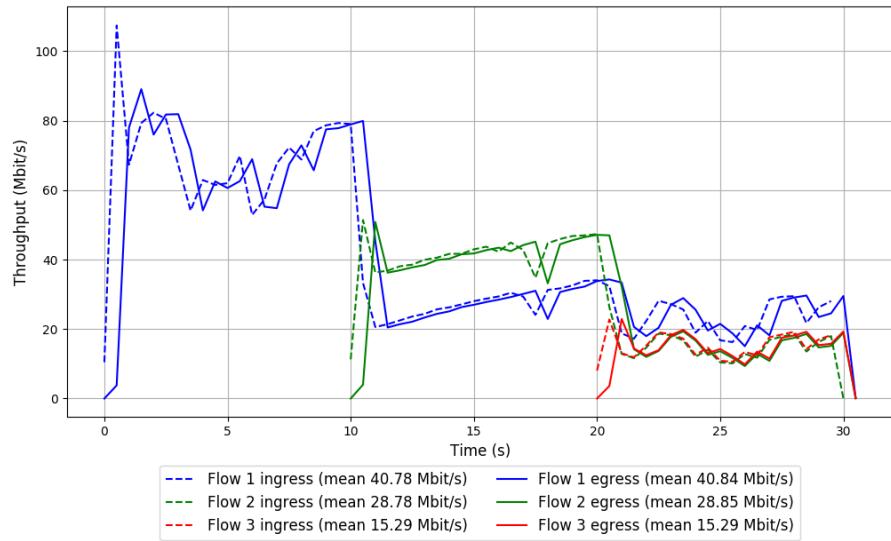


Run 4: Statistics of TCP Vegas

```
Start at: 2018-12-20 09:18:53
End at: 2018-12-20 09:19:23
Local clock offset: -2.039 ms
Remote clock offset: -37.078 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 116.300 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 40.84 Mbit/s
95th percentile per-packet one-way delay: 127.519 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 110.543 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 106.443 ms
Loss rate: 1.01%
```

Run 4: Report of TCP Vegas — Data Link

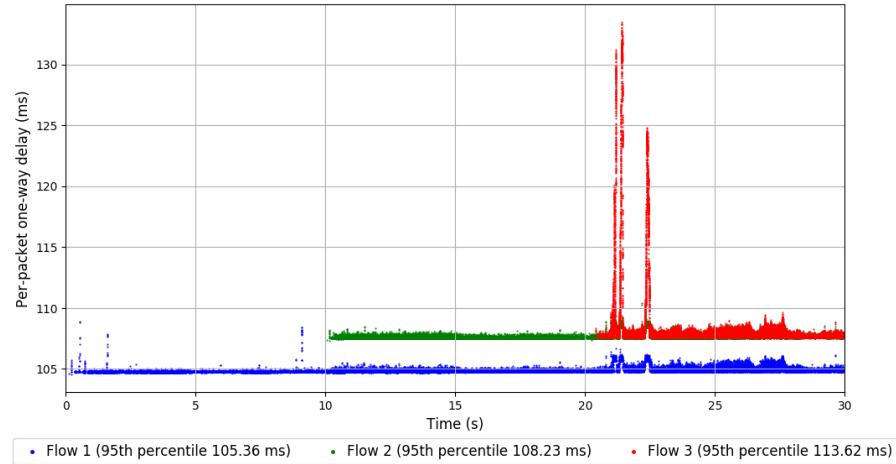
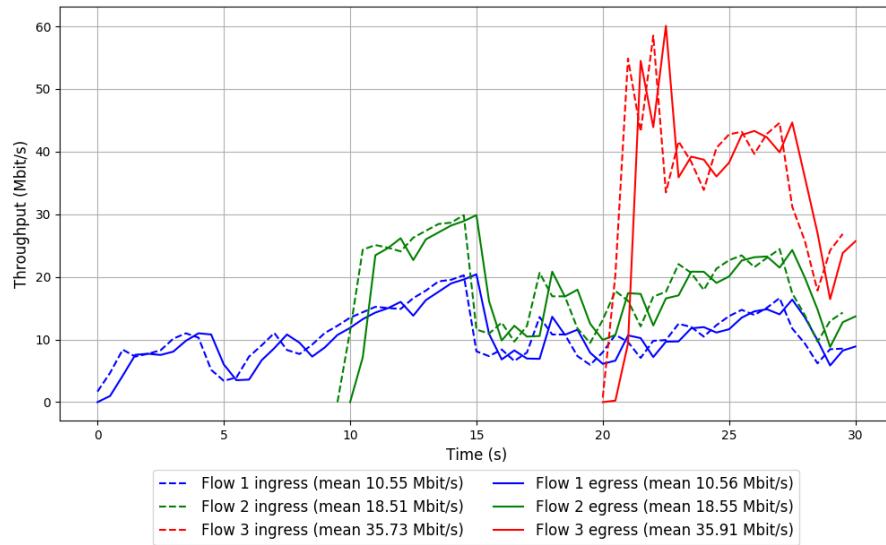


Run 5: Statistics of TCP Vegas

```
Start at: 2018-12-20 09:43:56
End at: 2018-12-20 09:44:26
Local clock offset: -1.433 ms
Remote clock offset: -34.561 ms

# Below is generated by plot.py at 2018-12-20 10:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 108.360 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 10.56 Mbit/s
95th percentile per-packet one-way delay: 105.364 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 108.227 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 113.620 ms
Loss rate: 0.95%
```

Run 5: Report of TCP Vegas — Data Link

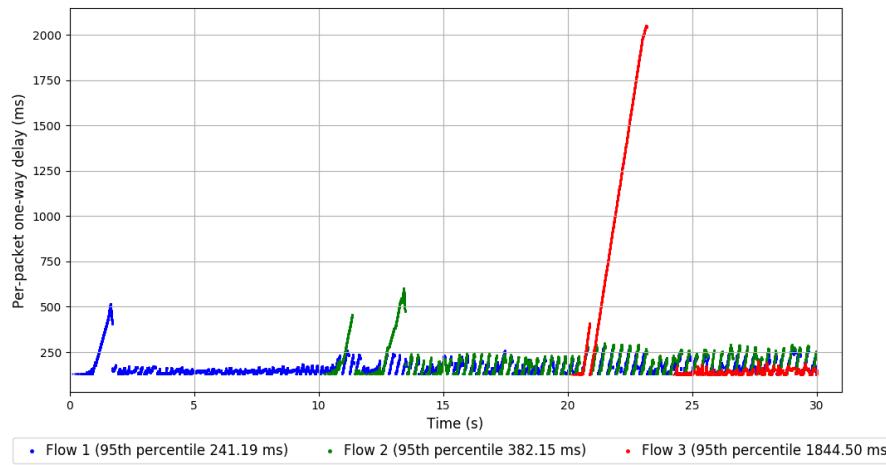
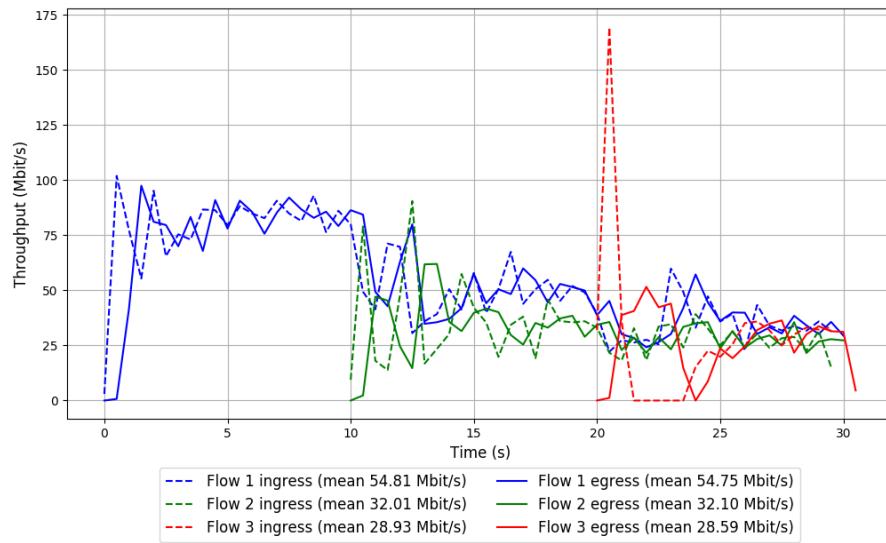


Run 1: Statistics of Verus

```
Start at: 2018-12-20 08:07:15
End at: 2018-12-20 08:07:45
Local clock offset: -2.508 ms
Remote clock offset: -59.954 ms

# Below is generated by plot.py at 2018-12-20 10:07:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 416.181 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 54.75 Mbit/s
95th percentile per-packet one-way delay: 241.190 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 382.152 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 1844.502 ms
Loss rate: 1.91%
```

Run 1: Report of Verus — Data Link

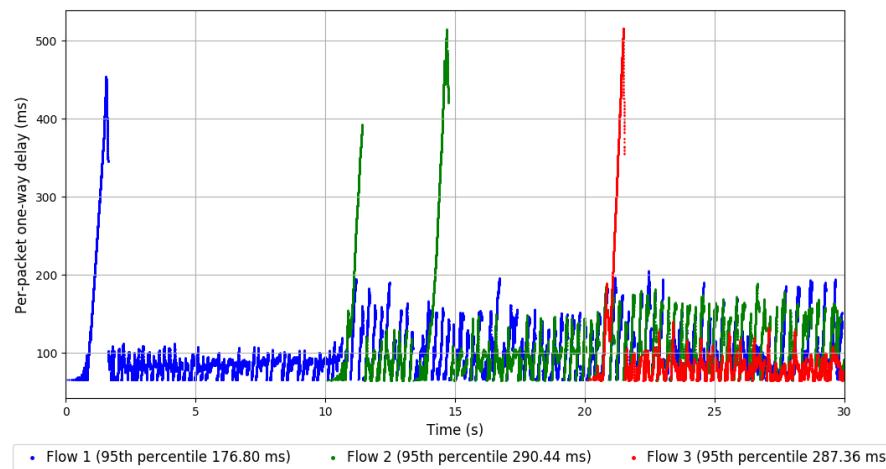
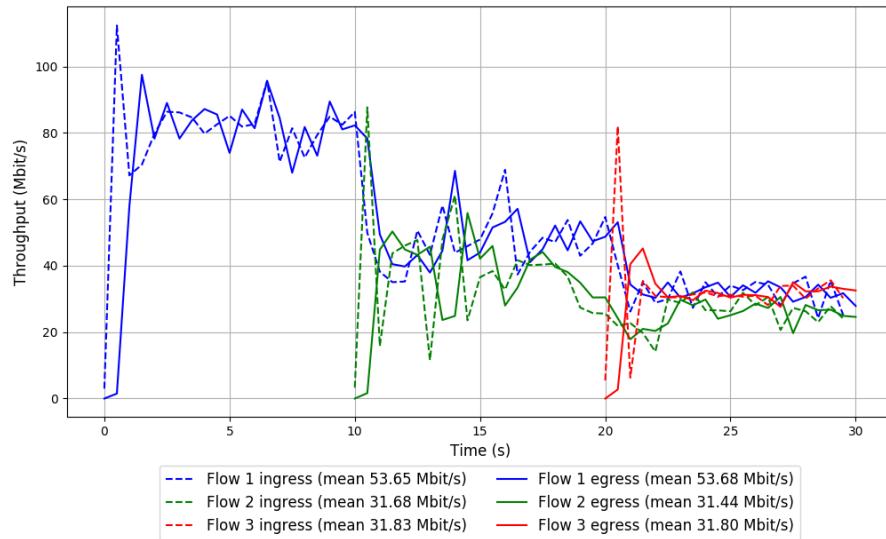


Run 2: Statistics of Verus

```
Start at: 2018-12-20 08:31:37
End at: 2018-12-20 08:32:07
Local clock offset: -1.854 ms
Remote clock offset: 1.275 ms

# Below is generated by plot.py at 2018-12-20 10:07:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 191.542 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 53.68 Mbit/s
95th percentile per-packet one-way delay: 176.803 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 290.442 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 287.362 ms
Loss rate: 0.81%
```

Run 2: Report of Verus — Data Link

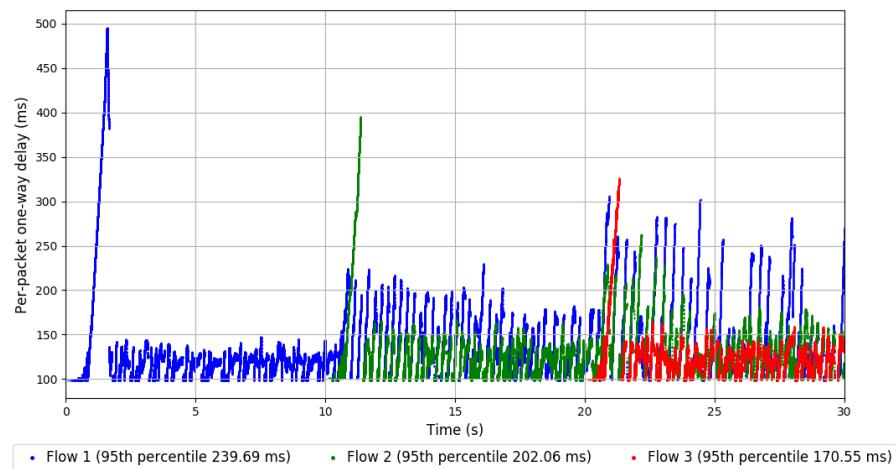
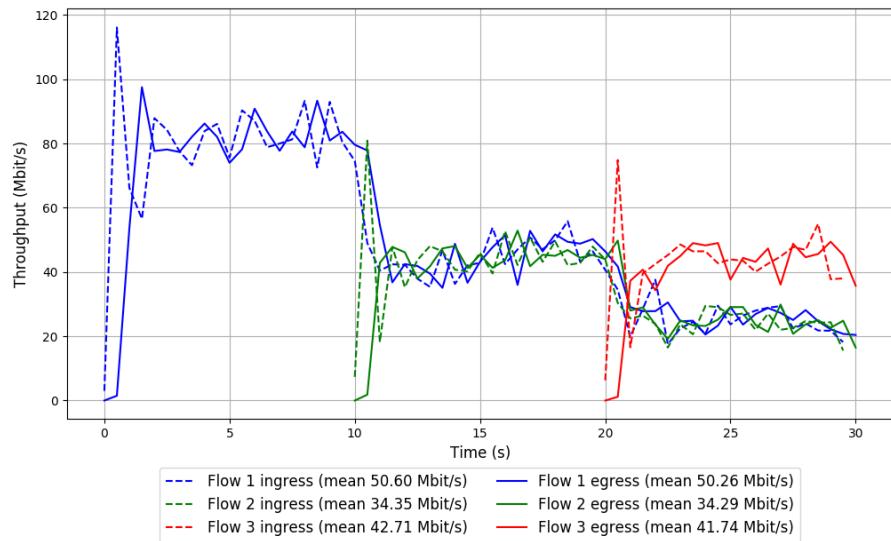


Run 3: Statistics of Verus

```
Start at: 2018-12-20 08:55:48
End at: 2018-12-20 08:56:18
Local clock offset: 1.087 ms
Remote clock offset: -30.06 ms

# Below is generated by plot.py at 2018-12-20 10:07:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.84 Mbit/s
95th percentile per-packet one-way delay: 222.786 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 239.685 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 34.29 Mbit/s
95th percentile per-packet one-way delay: 202.057 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 170.552 ms
Loss rate: 2.92%
```

Run 3: Report of Verus — Data Link

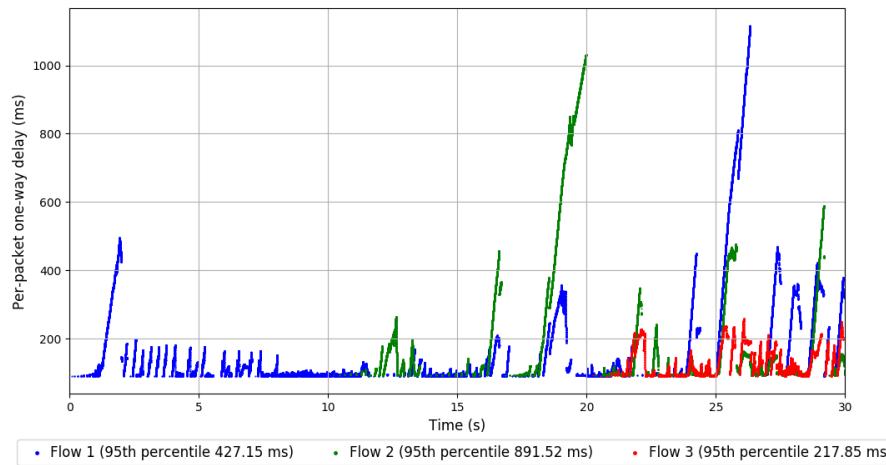
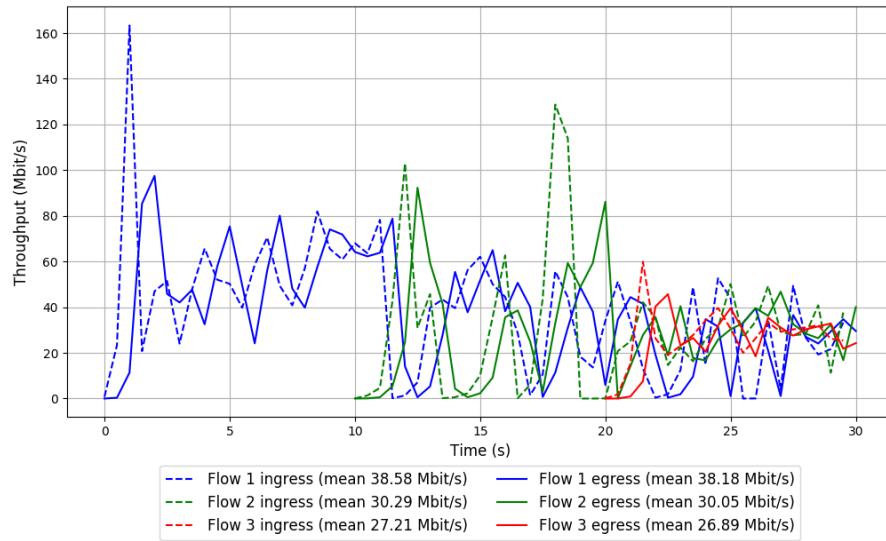


Run 4: Statistics of Verus

```
Start at: 2018-12-20 09:21:21
End at: 2018-12-20 09:21:51
Local clock offset: -0.664 ms
Remote clock offset: -22.635 ms

# Below is generated by plot.py at 2018-12-20 10:07:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.75 Mbit/s
95th percentile per-packet one-way delay: 624.363 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 427.148 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 30.05 Mbit/s
95th percentile per-packet one-way delay: 891.523 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 26.89 Mbit/s
95th percentile per-packet one-way delay: 217.855 ms
Loss rate: 2.34%
```

Run 4: Report of Verus — Data Link

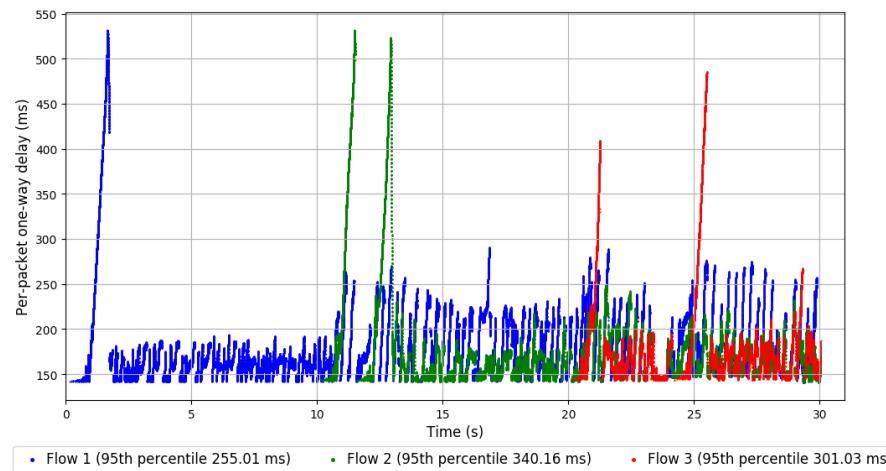
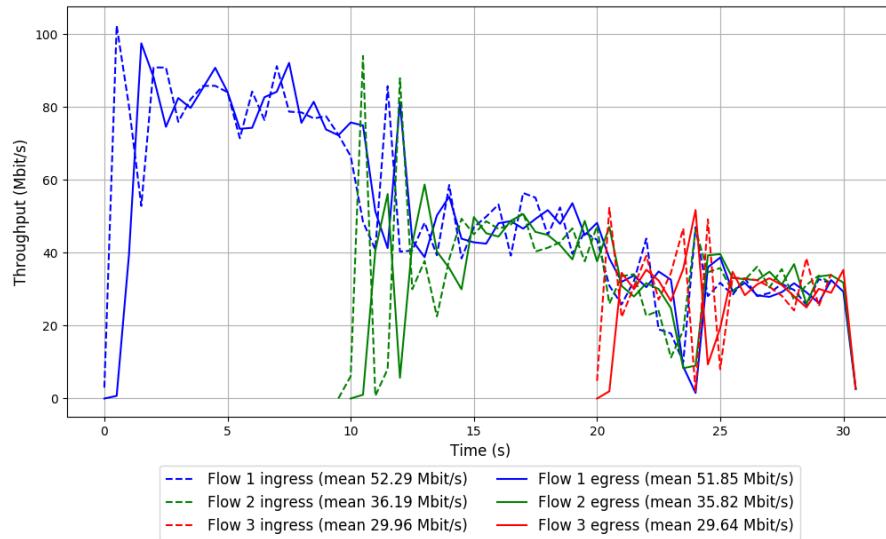


Run 5: Statistics of Verus

```
Start at: 2018-12-20 09:46:27
End at: 2018-12-20 09:46:57
Local clock offset: 0.804 ms
Remote clock offset: -68.062 ms

# Below is generated by plot.py at 2018-12-20 10:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 270.165 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 255.015 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 340.160 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 301.030 ms
Loss rate: 1.82%
```

Run 5: Report of Verus — Data Link

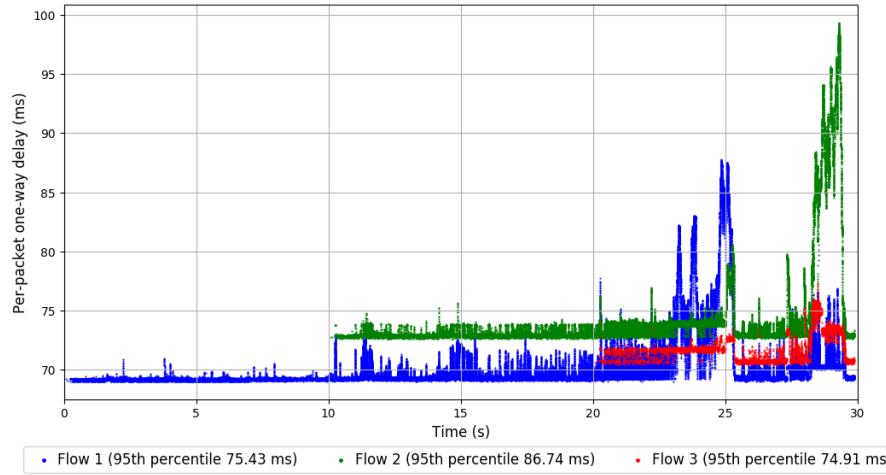
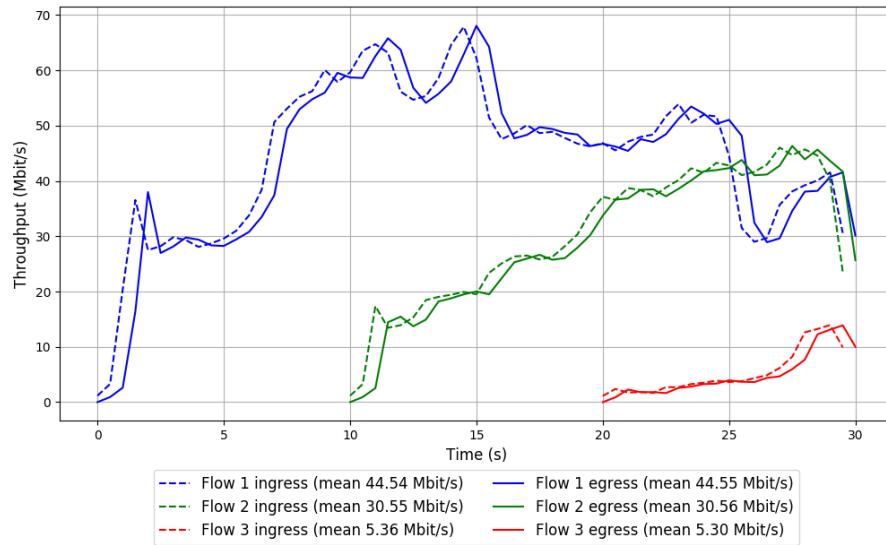


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:09:51
End at: 2018-12-20 08:10:21
Local clock offset: -2.932 ms
Remote clock offset: -5.785 ms

# Below is generated by plot.py at 2018-12-20 10:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 77.809 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 44.55 Mbit/s
95th percentile per-packet one-way delay: 75.432 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 86.738 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 74.908 ms
Loss rate: 1.83%
```

Run 1: Report of PCC-Vivace — Data Link

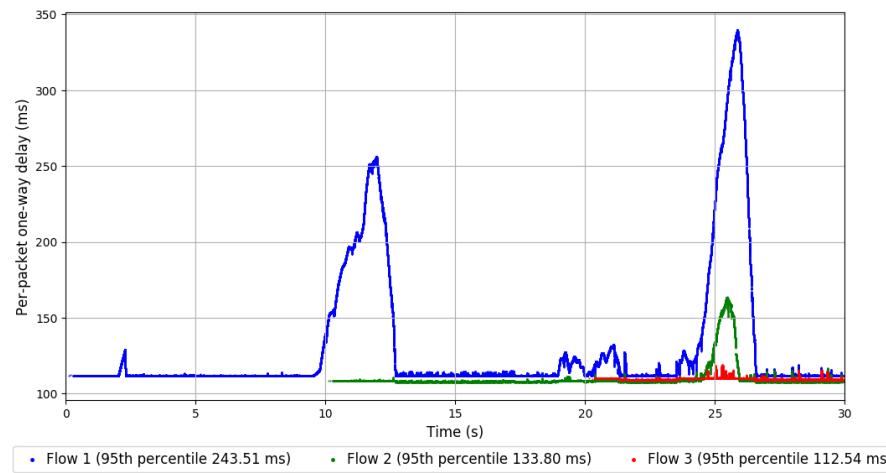
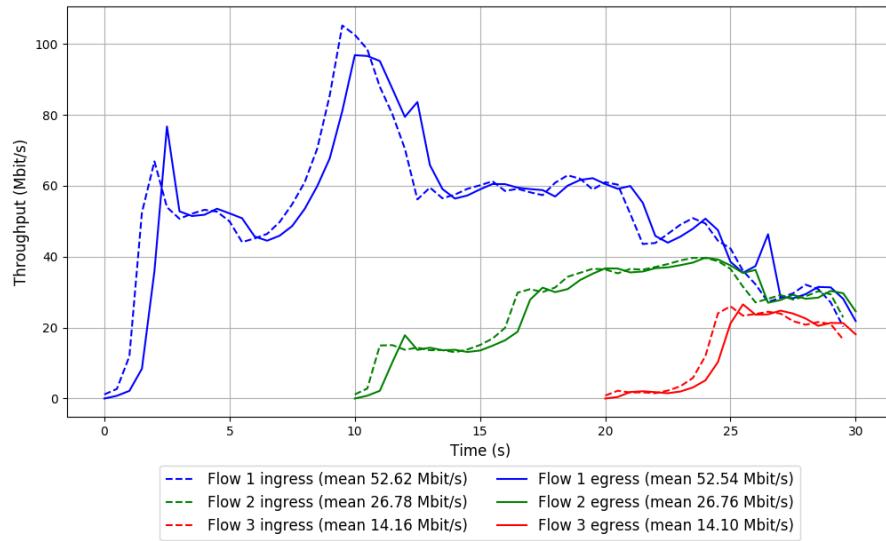


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:34:10
End at: 2018-12-20 08:34:40
Local clock offset: -2.512 ms
Remote clock offset: -41.938 ms

# Below is generated by plot.py at 2018-12-20 10:07:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.94 Mbit/s
95th percentile per-packet one-way delay: 217.128 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 52.54 Mbit/s
95th percentile per-packet one-way delay: 243.510 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 133.801 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 112.537 ms
Loss rate: 1.16%
```

Run 2: Report of PCC-Vivace — Data Link

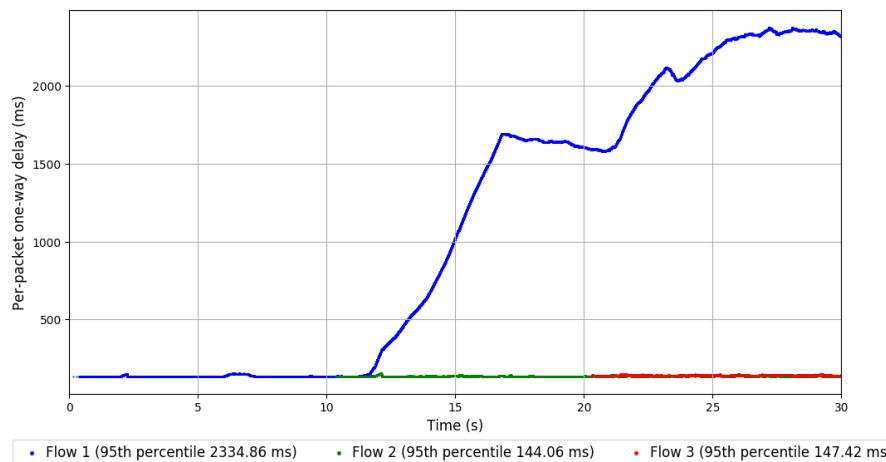
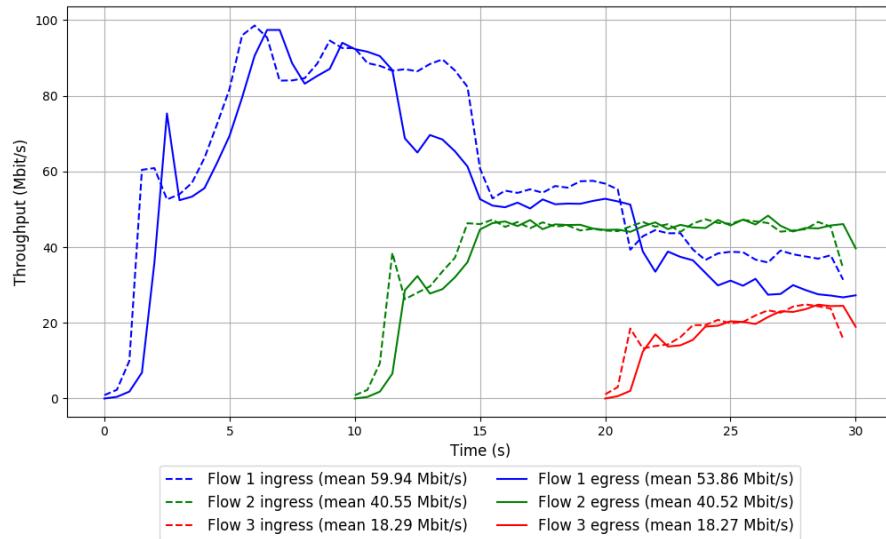


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:58:29
End at: 2018-12-20 08:58:59
Local clock offset: -0.084 ms
Remote clock offset: -68.71 ms

# Below is generated by plot.py at 2018-12-20 10:07:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.78 Mbit/s
95th percentile per-packet one-way delay: 2266.754 ms
Loss rate: 6.86%
-- Flow 1:
Average throughput: 53.86 Mbit/s
95th percentile per-packet one-way delay: 2334.864 ms
Loss rate: 10.34%
-- Flow 2:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 144.059 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 18.27 Mbit/s
95th percentile per-packet one-way delay: 147.422 ms
Loss rate: 0.92%
```

Run 3: Report of PCC-Vivace — Data Link

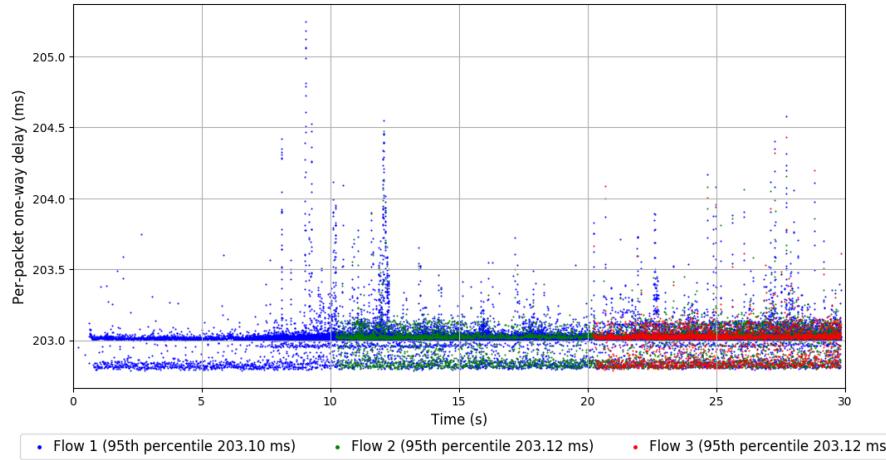
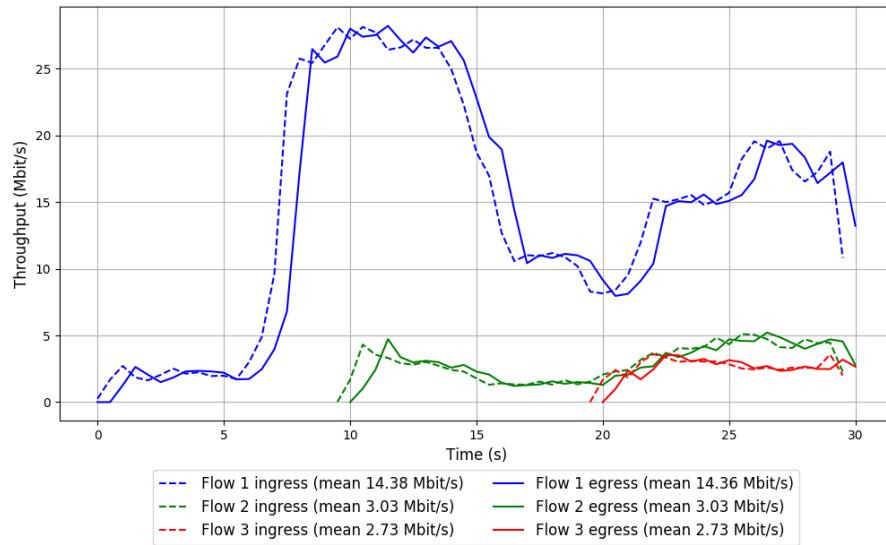


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-12-20 09:23:54
End at: 2018-12-20 09:24:24
Local clock offset: 0.219 ms
Remote clock offset: -132.21 ms

# Below is generated by plot.py at 2018-12-20 10:07:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.28 Mbit/s
95th percentile per-packet one-way delay: 203.110 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 14.36 Mbit/s
95th percentile per-packet one-way delay: 203.099 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 203.125 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 203.122 ms
Loss rate: 1.67%
```

Run 4: Report of PCC-Vivace — Data Link

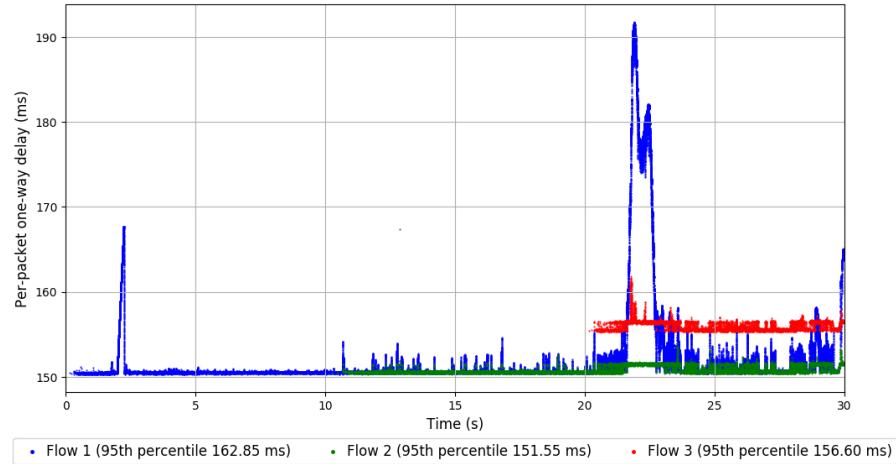
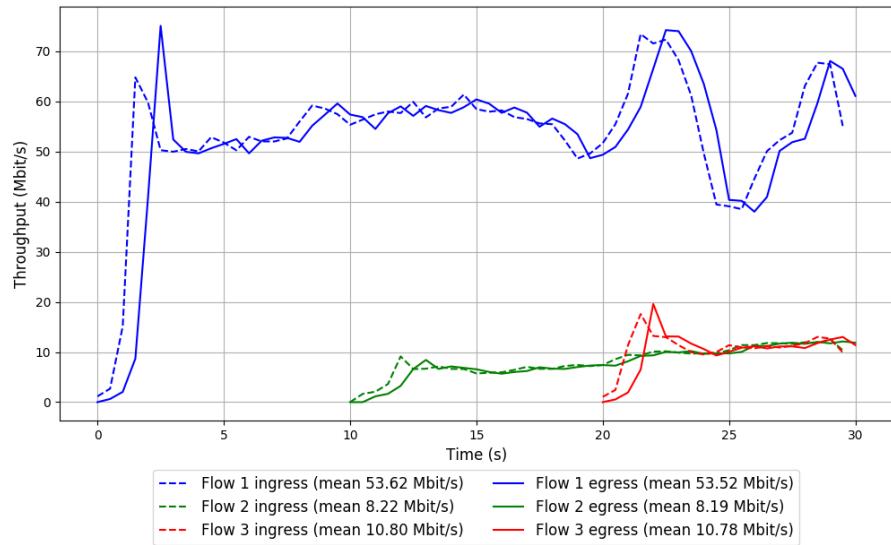


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-12-20 09:49:23
End at: 2018-12-20 09:49:53
Local clock offset: 2.869 ms
Remote clock offset: -72.329 ms

# Below is generated by plot.py at 2018-12-20 10:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.47 Mbit/s
95th percentile per-packet one-way delay: 159.126 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 53.52 Mbit/s
95th percentile per-packet one-way delay: 162.852 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 151.549 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 10.78 Mbit/s
95th percentile per-packet one-way delay: 156.598 ms
Loss rate: 1.14%
```

Run 5: Report of PCC-Vivace — Data Link

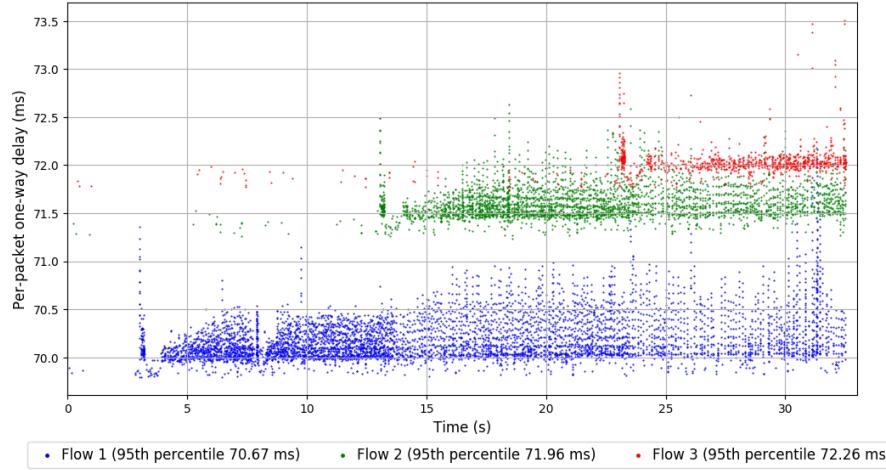
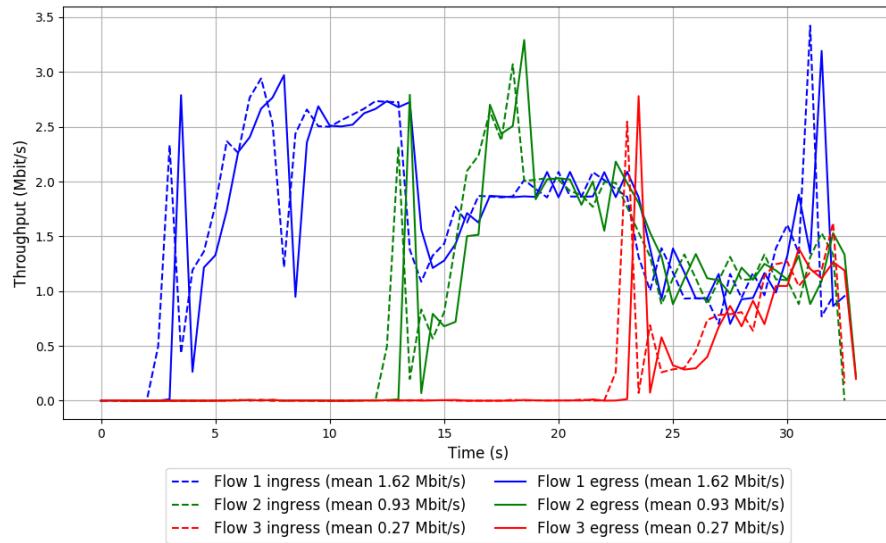


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-20 07:54:15
End at: 2018-12-20 07:54:45
Local clock offset: 1.465 ms
Remote clock offset: -2.904 ms

# Below is generated by plot.py at 2018-12-20 10:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 72.034 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 70.670 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 71.963 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 72.260 ms
Loss rate: 2.47%
```

Run 1: Report of WebRTC media — Data Link

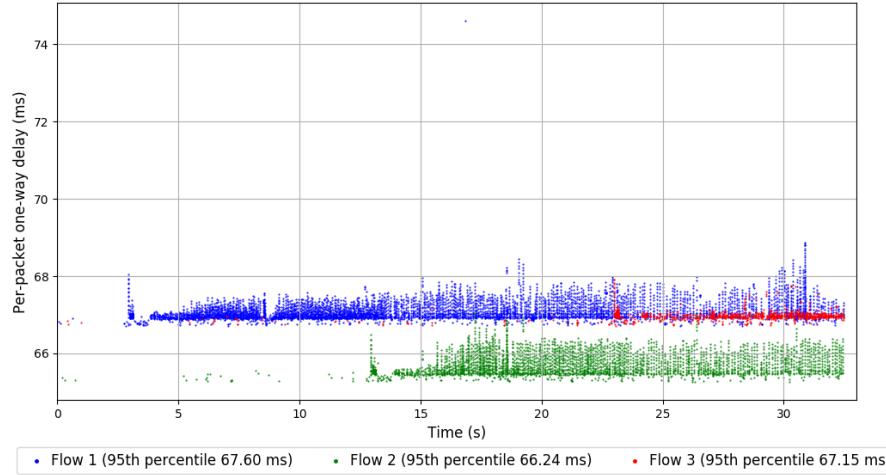
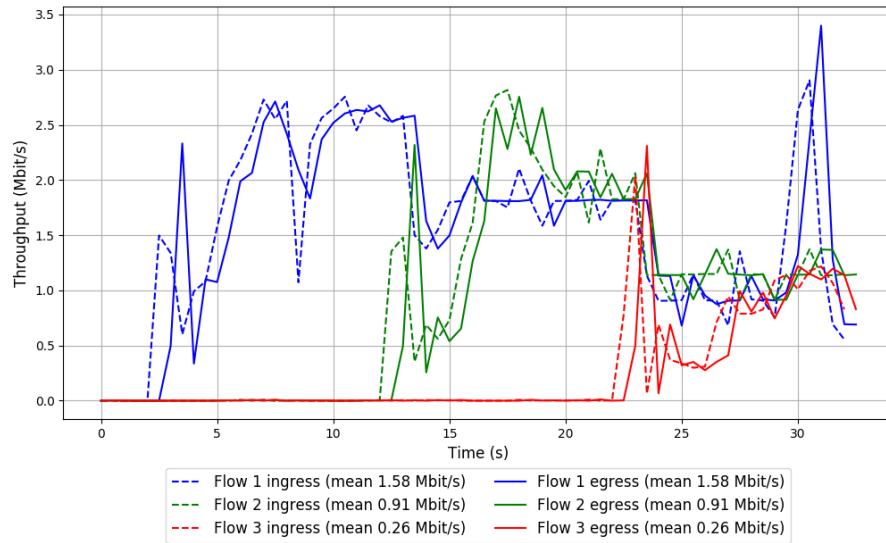


Run 2: Statistics of WebRTC media

```
Start at: 2018-12-20 08:18:33
End at: 2018-12-20 08:19:03
Local clock offset: -1.153 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-12-20 10:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 67.487 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 67.602 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 66.242 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 67.150 ms
Loss rate: 0.49%
```

Run 2: Report of WebRTC media — Data Link

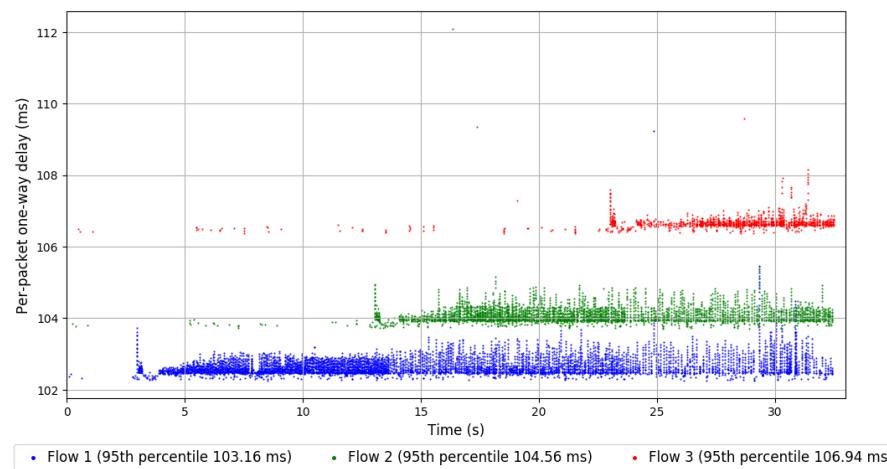
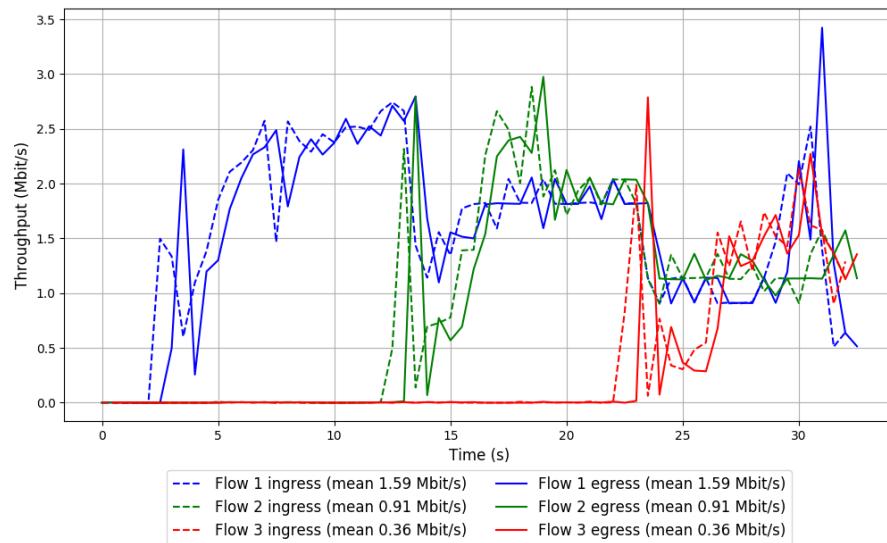


Run 3: Statistics of WebRTC media

```
Start at: 2018-12-20 08:42:52
End at: 2018-12-20 08:43:22
Local clock offset: -0.711 ms
Remote clock offset: -35.598 ms

# Below is generated by plot.py at 2018-12-20 10:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 106.675 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 103.155 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 104.557 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 106.944 ms
Loss rate: 0.69%
```

Run 3: Report of WebRTC media — Data Link

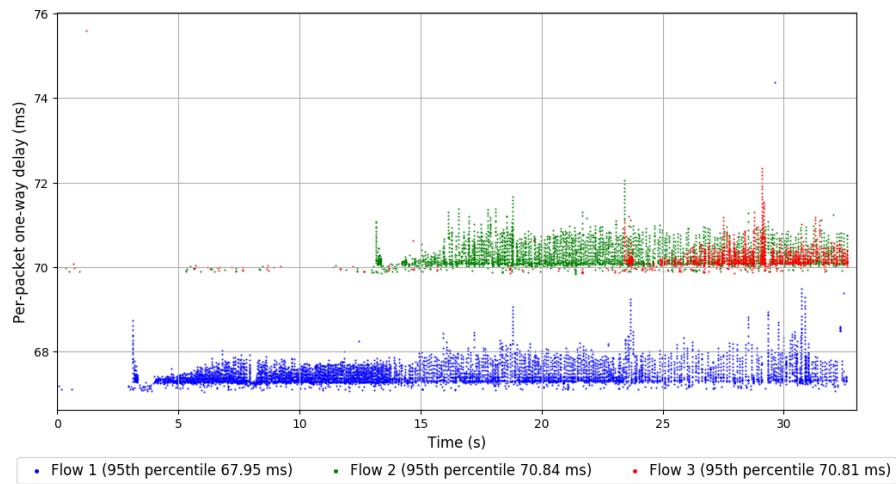
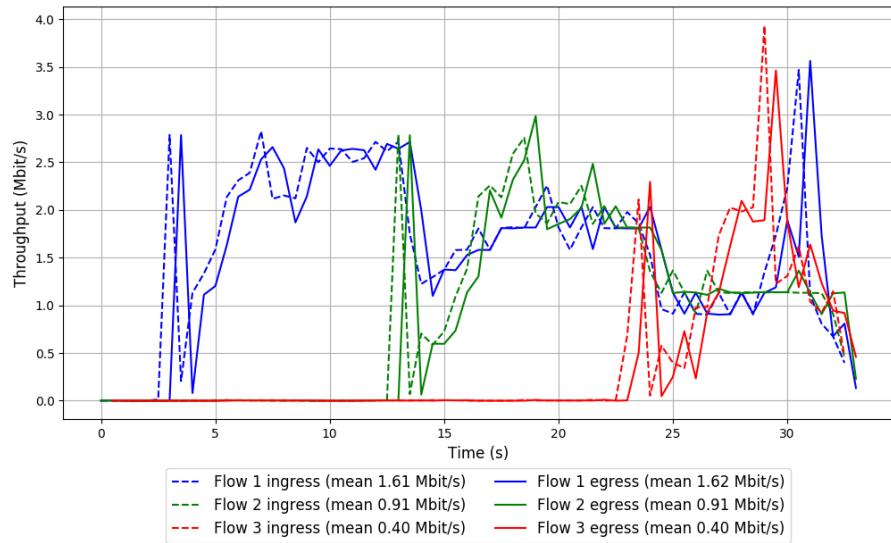


Run 4: Statistics of WebRTC media

```
Start at: 2018-12-20 09:08:27
End at: 2018-12-20 09:08:57
Local clock offset: 0.076 ms
Remote clock offset: 0.327 ms

# Below is generated by plot.py at 2018-12-20 10:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 70.681 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 67.950 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 70.836 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 70.810 ms
Loss rate: 0.92%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2018-12-20 09:33:16
End at: 2018-12-20 09:33:46
Local clock offset: -2.674 ms
Remote clock offset: -81.91 ms

# Below is generated by plot.py at 2018-12-20 10:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 152.640 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 149.872 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 152.638 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 152.896 ms
Loss rate: 0.01%
```

Run 5: Report of WebRTC media — Data Link

